

Regulatory Control

User Guide

Neon Version

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Contents

About Procession	7
About Procession Software LLC.....	7
Visual Process Flows	8
Regulatory Control Module Overview	10
Product Screen Enhancements Overview.....	11
Procession Active Checkbox.....	12
Product - Properties Tab	12
Chemical Identifiers	12
SDS Exposure Controls	14
Properties.....	14
Product - Global Harmonization Tab.....	16
Product Global Harmonization –Pictograms Section	16
HMIS/NFPA Ratings.....	16
Product Global Harmonization-Hazard Statement Section.....	17
Product Global Harmonization-Precautionary Statements Section	17
Product Global Harmonization – GHS Conversion Status Section.....	18
Product Global Harmonization - GHS Signal Word Section	18
Product - Regulatory Tab.....	19
Product Regulatory –U.S. Regulatory Agencies Section	19
Product Regulatory - State/Province Regulatory Control Section.....	20
Product Regulatory - DOT Proper Shipping Name Section.....	20
Product Right Panel – Regulatory Menu Option (new in Neon)	21
Chemical Database.....	23
Import Options	23
Import Chemical Data Utility.....	23
Import Templates.....	27
Incoming Web Service Calls	27
CAS Maintenance	28
CAS Master – Header	28
CAS Master – Setting Tab	28
CAS Master – GHS Tab	30
CAS Master – Exposures Tab.....	31

CAS Master – Properties Tab.....	31
CAS Master – Toxicity/Eco-toxicity Tab.....	32
CAS Master – Regulations Tab	33
CAS Master - Hazard Classes	34
Publish Chemical Data	36
Regulatory Document Templates (New in Neon).....	38
Requirements by Country (New in Neon).....	41
Formula Hazards Classifications/SDS Generation.....	43
Classify Hazards.....	47
Generate SDS	48
View SDS.....	49
Safety Data Sheets Overview	50
Setup	50
SDS Language Translation Setup	50
SDS Section Headers	50
SDS Phrase Library.....	52
GHS Phrases	57
SDS Templates.....	58
Methods for Creating a Safety Data Sheet.....	60
Generating a Safety Data Sheet from a Formula.....	60
Importing an SDS.....	60
Manually Creating Safety Data Sheets	60
Safety Data Sheet	64
SDS Header.....	65
Section 1 - Identification	65
Section 2 – Hazard Identification	67
Section 3 – Composition.....	69
Section 4 – First Aid Measures	69
Section 5 – Firefighting Measures	70
Section 6 – Accidental Release	72
Section 7 – Handling and Storage	73
Section 8 – Exposure Control	74
Section 9 – Physical Properties	76
Section 10 – Reactivity	77

Section 11 – Toxicological	78
Section 12 – Ecological Information	80
Section 13 – Disposal Considerations.....	81
Section 14 – Transport	81
Section 15 – Regulation Reporting.....	83
Section 16 – Other Information	84
Safety Data Sheet Document	85
Printing/Emailing Single SDS	85
Printing/Emailing All Safety Data Sheets for a Delivery	86
Batch Printing/Emailing SDS.....	86
SDS Report Example.....	88
GHS-Compliant Labels	89
SDS Label	89
Work Order Label.....	90
Regulation Reporting Overview (Updated in Neon)	93
Creating an Regulation Reporting Session	94
Header Tab.....	94
Regulation Reporting Calculations	94
Regulation Reporting CAS Results	96
Regulation Reporting Product Results	98
Regulation Reporting Report.....	98
Product Sync from SDS or Formula Utility (New in Neon)	100
Appendix 1 – Local Menus	101
Local Menu 4845 – HMIS Health Levels	102
Local Menu 4846 – HMIS Flammability Levels	103
Local Menu 4847 – HMIS Physical Hazards	103
Local Menu 4848 – Personal Protection Equipment.....	104
Local Menu 4849 – Reactivity Levels.....	105
Local Menu 4850 – Specific Hazards	105
Local Menu 4851 – HMIS/NFPA Report Options.....	106
Local Menu 4852 – Property Types	106
Local Menu 4853 – State Registration Hold	107
Local Menu 4854 – Precautionary Statement Types.....	108

Local Menu 4855 – Hazard Statement Types.....	108
Local Menu 4856 – GHS Signal Word.....	109
Local Menu 4857 – Exposure Types.....	110
Local Menu 4858 – Regulation Sections.....	111
Local Menu 4859 – Regulatory Agency.....	112
Local Menu 4860 – SDS Composition Lower %.....	112
Local Menu 4861 – SDS Composition Upper %.....	113
Local Menu 4864 – State Registration.....	114
Local Menu 19151 – Formula Hazard Unit.....	114
Local Menu 19152 – Physical State.....	116
Local Menu 19153 – Toxicity Inhalation Form.....	116
Local Menu 19154 – Flag (Auto/Manual).....	117
Local Menu 19155 – Flag (Template/Revision).....	118
Local Menu 19160 – LOLI – GHS Update.....	118
Local Menu 19172 – LOLI Service Type.....	119
Appendix 2 – Miscellaneous Tables.....	120
Miscellaneous Table 4848 – SDS Properties.....	120
Miscellaneous Table 4849 – GHS LOLI List.....	121
Miscellaneous Table 204 – Manual Hold Reasons.....	121
Miscellaneous Table 4851 – SDS Locale.....	122
Miscellaneous Table 4852 – SDS Toxicological Test Type.....	123
Miscellaneous Table 4853 – SDS Toxicological Species.....	124
Miscellaneous Table 4854 – SDS Toxicological Exposure Routes.....	124
Miscellaneous Table 4855 – SDS Class of Species.....	125
Miscellaneous Table 4856 – Exposure LOLI List.....	125
Miscellaneous Table 4857 – Exposure LOLI Mapping.....	125
Miscellaneous Table 4859 – Hazard Classifications.....	126
Miscellaneous Table 4860 – SDS Phrases Condition Type.....	127
Miscellaneous Table 4861 – SDS GHS Classifications.....	127
Appendix 3 – Parameter Setup.....	128
Appendix 4 – Hazard Rules Setup.....	129
Appendix 5 - Global Harmonization Data Library.....	130
GHS Hazard Statements.....	130

GHS Precautionary Statements	131
Appendix 6 – Regulations	132
Regulations.....	132
Publish Inventory Lists	135
Appendix 7 – LOLI Database Setup	136
Setup Initial CAS Data.....	136
Setup List Mappings	136
Setup Locales.....	136
Setup Database	137
Setup API	137
END USER LICENSE AGREEMENT	139

About Procession



Procession is a Sage X3 suite of modules, which was created by **Procession Software LLC**. Designed for process manufacturers and distributors, **Procession** provides premium features and modules for your Sage X3 system. **Procession** allows companies to get more out of Sage X3.

Procession picks up where Sage X3 leaves off. **Procession** provides enhanced functionality for customers who are looking to get more from their Sage X3 system. **Procession** helps to manage the complexity of process manufacturing allowing you to do more with less.

Procession is a fully integrated solution that runs seamlessly within X3 and does not require additional hardware. Since **Procession** is part of your Sage X3 system, it is easier to install and maintain than external third party applications. Since it shares the Sage X3 user interface, it is quick to learn and adopt. **Procession** becomes part of your Sage X3 system and therefore requires no integration links and all data resides within the Sage X3 database.

About Procession Software LLC.

Procession Software LLC is a team of professionals from the worlds of process manufacturing and software development and implementation. Our vision is to create THE process manufacturing solution for Sage X3. This vision guided our development of **Procession**.

The initial seeds of **Procession** started in 2006 when a team of process manufacturing professionals and developers designed and built software that would handle the unique requirements for chemical manufacturers. The software brought order to the chaos of regulation compliance, formula management, material safety data sheets and quality control.

The solution, which started in 2006, has evolved into **Procession**, an enhancement suite for process manufacturers. Since its launch in 2014, **Procession** has received much praise from the Sage X3 community. Today, companies ranging from hundreds of employees to companies with tens of employees use **Procession**. As our user base continues to grow, our team is dedicated to adding innovative functionality that addresses the ever-changing landscape of regulations and the needs of formulators, quality control professionals, manufacturers and distributors.

Since 2013, the Procession team has been working closely with Sage Software to ensure that our solution meets the development standards of Sage. **Procession** is Sage Certified Solution and has been since 2015.

Visual Process Flows

Procession

OVERVIEW PRESALES/FORMULAS QUALITY CONTROL MANUFACTURING ENHANCEMENTS DISTRIBUTION ENHANCEMENTS **REGULATORY CONTROL**

PROCESSION - REGULATORY CONTROL - CHEMICAL

Procession Regulatory Control

Safety Data Sheets (SDS) Regulatory Document Templates Requirements by Country	CAS Master Data Regulations Products Proper Shipping Names	SDS Section Headers SDS Phrase Library Hazard Phrases Precautionary Phrases Classification Rules	Import Chemical Data Publish Chemical Data	Regulation Reporting	Safety Data Sheet (SDS) GHS Label (XJB1LBLCONTAINR) Delivery Label (XJB1SETICOL)
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HAZARD CLASSIFICATION MAINTENANCE PROCESS

Regulation Reporting

Features include:

- Hazard Classifications
- Multi-Language Support
- Multiple Country Support
- Product Registrations
- CAS Maintenance
- SDS Generation
- GHS Labels
- UL LOLI integration (optional)
- Regulation Report (TIER I and TIER II)

Last Update: 12/02/18

YPP_104

Procession can be accessed from the Sage X3 Navigation Menu or from Visual Process Flows within the Sage X3 Dashboard. The Visual Process Flows shown above is installed with **Procession**. Customers can also create their own process maps in order to access both Sage X3 and **Procession** features.

Sage X3 Version 12 Navigation Menu

Menu 0 of 0

- Administration
- Development
- Setup
- Common data
- Customer relation
- Purchasing
- Sales
- Stock
- Procession**
- Manufacturing
- Change Control
- Costing
- Financials
- A/P-A/R accounting
- Declarations
- Fixed assets
- ADCs
- Usage
- Reports
- Translations

Procession

- ^ **About Procession**
 - About Procession
- ^ **Formulation Module**
 - R&D Formulas
 - Presale Request
 - ^ **Maintenance/Setup**
 - Property Equations
 - Boilerplate Notes
 - Templates
 - Task Template
 - Presale Questionnaire Template
 - ^ **Inquiries**
 - Formula Compare
 - BOM Formula Version
 - ^ **Enhancements**
 - Projects
 - ^ **Utilities**
 - Mass Component Replace
 - Formula Update
 - Batch Publish to Product
- ^ **Regulatory Control Module**
 - Safety Data Sheet (SDS)
 - ^ **SDS Phrase Setup**
 - DOT Proper Shipping Names
 - GHS Hazard Phrases
 - GHS Pre-Cautionary Phrases
 - ^ **Utilities**
 - Publish Chemical Data
 - Import Chemical Data
 - Product Sync from SDS or Formula
 - ^ **Enhancements**
 - Products
 - ^ **Inquiries**
 - Regulation Reporting
 - ^ **Maintenance/Setup**
 - CAS Maintenance
 - Regulations
 - SDS Section Headers
 - SDS Phrase Library
 - Hazard Classification Rules
 - Regulatory Document Templates
 - Requirements by Country
 - ^ **GHS Labeling**
 - ^ **WO Labels (XJB1LBLCONTAINR)**
 - Print stock labels

Regulatory Control Module Overview

Procession Regulatory Control Module provides functionality to maintain, track, and report regulatory information by CAS number or formula. This regulatory information can be used in the Procession Formulation module to determine regulatory compliance and/or for generating a Safety Data Sheet (SDS) for a product.

Managing and reporting chemicals is a requirement for companies that store or handle potentially hazardous materials or controlled substances. This can include finished goods, intermediates, raw materials, and/or cleaning supplies.

Features of the Regulatory Control module include:

- Safety Data Sheets
- GHS Product labels
- Regulation tracking by CAS number
- Product registration controls
- Regulatory Reporting – Maximum on-hand quantities and receipts/issues by period. Used for TIER I and TIER II reporting
- Multi-language support
- UL / ChemAdvisor® LOLI database integration
- Regulatory Requirements by Country (New in Neon)
- Regulatory Document Templates (New in Neon)

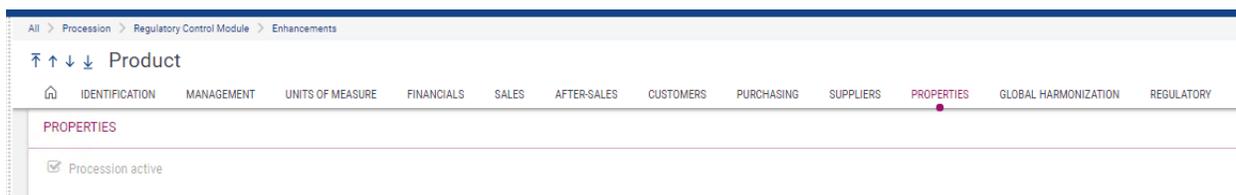
These features are described in more detail in the sections that follow.

Product Screen Enhancements Overview

Procession adds the ability to track chemical composition, regulatory and property information for products. The standard Sage X3 product screen can be accessed from the Sage X3 menu or by navigating to **Procession → Regulatory Control Module → Enhancements → Products**.

Procession adds the following tabs to the product screen:

- Properties
- Global Harmonization
- Regulatory



Procession also adds a right panel menu that allows direct access to the SDS from the product.



Most of the data in these **Procession** tabs is also available on the SDS screen. It is recommended that if an SDS record exists for the product, this data should be maintained on the SDS record and not on the product. By default, when an SDS is saved, the SDS data will overwrite the data on the Product. This behavior is controlled by a system parameter and can be changed (See [APPENDIX 3 – PARAMETER SETUP](#)).

For products that do not have an SDS record, for example a raw material or an intermediate, this data should be maintained on the product record. The advantages of recording this data for raw materials and intermediates include:

- CAS numbers and percentages by product.
- Allows Regulatory Reporting per CAS number based upon the product's stock transactions in Sage X3.
- CAS information is used in determining the chemical composition of formulas.
- Provides easy access to the electronic versions of GHS, Personal Protection Equipment (PPE), Exposure limits and properties for each raw material and intermediate.
- GHS information is used on **Procession** Manufacturing Module's Batch Ticket Report to show hazards per component

Detailed information regarding the Product Screen Enhancements can be found in the sections the sections that follow.

Procession Active Checkbox

The “Procession active” checkbox appears on each of the **Procession** tabs on the product record. This checkbox identifies which tabs are provided by **Procession** and also whether the tabs are properly installed.

Procession active

If this checkbox is checked, then **Procession** is installed and functioning properly. If this checkbox is not checked, please notify your System Administrator that there is a problem resulting in **Procession** code not working for the Product window.

Product - Properties Tab

The following information can be entered on the product property tab.

The first two sections of this tab are for hazardous materials:

- Chemical Identifiers – Chemical identifier(s) for the product.
- SDS Exposure Controls – Exposure limits for the different chemicals within the product.

The third section is a multiple purpose section for entering any product properties.

- Properties – Product Properties. These can include SDS properties or internally tracked properties. Properties can either be manually entered or automatically calculated from the product’s R&D formula.

In the Food, Beverage and Nutraceutical industries, properties can also include nutritional information.

The three sections on this tab are described in detail in the following sections.

Chemical Identifiers

PROPERTIES

Procession active

CHEMICAL IDENTIFIERS

	CAS #	Lower or Exact ...	Upper Value	CAS Description	EC #	REACH #	Classification
1	13463-67-7	Q	100.00	0.00 Titanium dioxide	236-675-5		
2		Q					

The Chemical Identifiers section is where Chemical Abstract Service (CAS #) identifiers for raw materials and intermediates are maintained. These CAS numbers are selected from the CAS master data within **Procession**. For more information about setting up CAS data, see [CHEMICAL DATABASE](#).

Popup view

CAS #	CAS Description	Classification
→ 13463-67-7	Titanium dioxide	
Lower or Exact Value	EC #	Molecular Formula
100.00	236-675-5	O2Ti
Upper Value	REACH #	Goal
0.00		

The fields in this grid are:

- **CAS#** - CAS Number
- **Lower or Exact Value** – If the exact composition percentage is known, it can be entered here. However, if a range is known, then the lower end of the range is entered here.
- **Upper Value** – If the exact composition percentage is known, then this field can be left blank and the exact value entered into the “Lower or Exact Value” field. However, if a range is known, then the upper end of the range is entered here.
- **CAS Description** – Chemical Name.
- **EC#** - European Community Number.
- **REACH#** - REACH ID Number.
- **Classification** – Hazard classifications for the chemical.
- **Molecular Formula** – Molecular formula for the chemical.
- **Goal** – Target composition percentage.

Additional CAS numbers can be added by selecting or inserting a blank row and pressing the selection button for the CAS# field. Upon CAS# selection, the following data is automatically updated on the Product from the CAS data:

- Exposures
- Regulations
- GHS Pictograms
- GHS Hazard Phrases
- GHS Precautionary Phrase

SDS Exposure Controls

SDS EXPOSURE CONTROLS

	CAS #	Exposure Type	Exposure Form	Exposure Value	Exposure Notes	LOLI List ...
1	13463-67-7	OSHA PEL		10mg/m3		0
2	13463-67-7	OSHA PEL		15mg/m3		0
3	13463-67-7	ACGIH TLV		10mg/m3		0
4	13463-67-7	QUEBEC		10mg/m3		0
5	13463-67-7	ONTARIO		10mg/m3		0
6	13463-67-7	BRITISH COLUMBIA		10mg/m3		0
7	13463-67-7	BRITISH COLUMBIA		3mg/m3		0
8						

Exposure controls for raw materials and intermediates are stored in this section of the product screen. The data from this section is used on the SDS for any formula which uses this product as a component. This exposure data is used within [SECTION 8 – EXPOSURE CONTROLS](#) of the Safety Data Sheet.

Fields included in Exposure Control include exposure type, form, value, and notes. Exposure types may be edited by changing values within [LOCAL MENU 4857 – EXPOSURE TYPES](#).

Exposure data is populated automatically from the CAS data when a CAS number is selected for the product. However, additional Exposure data can also be manually added for the product. This data can be manually maintained or updated periodically from the CAS master data.

Fields in this section include:

- **CAS#** - Chemical identifier for which the exposure limit applies.
- **Exposure Type** – Authority that has issued the exposure guidelines.
- **Exposure Form** – Can be either the method of exposure, such as vapor or else it can be the measurement method such as TWA.
- **Exposure Value** – Alphanumeric field that contains the exposure limit value.
- **Exposure Notes** – Alphanumeric field for entering additional notes regarding the exposure limit.

Properties

This section consists of a property type field and a properties grid, which contains characteristics or properties for the current product. Properties can be defined for classes of products or industries. Refer to [LOCAL MENU 4852 – PROPERTY TYPES](#) for more information. When a property type is selected, all of the properties in that group are automatically added to the properties grid.

Example of GHS properties

Chemical

PROPERTIES

30 Results Display: 10

ID	Property Name	Property Value	Sort Order	Qty.	UOM	Qty.	UOM
1	HENRY	Henry's Law Constant					
2	MLTPT	Melting Points					
3	MOLEC	Molecular Weights					
4	NOTA	InChI Notations					
5	ODDET	Odor Threshold (Detection)					
6	ODOR	Odors					
7	ODREC	Odor Threshold (Recognition)					
8	HETCO	Heats of Combustion					
9	HETFO	Heats of Formation					
10	PH	pH Value					

Example of internally tracked property

PROPERTY TYPE

PROPERTIES

ID	Property Name	Property Value	Sort Order	Qty.	UOM	Qty.	UOM
1	PPIG	Pigment %	PPIG	70	%		
2							

Properties are defined in the [MISCELLANEOUS TABLE 4848](#) and additional properties can be added as needed.

Properties for multiple property types can be added to a product. This can be done by first selecting a property type and allowing those properties to be added to the product. Next, change the property type to another property and the properties from the property type will be automatically added after the existing properties.

Properties can also be manually added to this list.

The fields in this section are:

- **ID** – This is the property ID that is selected from the Miscellaneous Table 4848.
- **Property Name** – Description for the property.
- **Property Value** – Alphanumeric field that allows free form property values.
- **Sort Order** – Alphanumeric field that allows the properties to be sorted.
- **QTY** – There are 2 numerical quantity fields which can be used in property calculations on the formula. Typically, the first QTY field is used to enter the primary property value and the second QTY field is used to enter a secondary measurement or parameter. For example, for Density,

the primary property value is the density measurement and the secondary measurement may be the temperature at which density was measured.

- **UOM** – Unit of measure for the corresponding quantity field.

Product - Global Harmonization Tab

Display elements required within the Global Harmonization System Standards.

Product Global Harmonization –Pictograms Section

In this section, select the pictograms that accurately reflect the hazard level of the product's content.

GHS - Pictograms

- Explosive Flammable Oxidizing Compressed Gas Toxic Corrosive Irritant
- Health Hazard Env Damaging

HMIS/NFPA Ratings

HMIS and NFPA are hazard rating systems. Ratings for the Hazardous Material Identification System (HMIS) can be entered using the drop down boxes for each category.

HAZARD RATINGS



Drop file from explorer or Select it

HMIS

- Chronic Health: 1 - Slightly Hazardous Flammability: 1 - Above 200°F Physical Hazard: 1 - Normally stable, but can become unstable at hig PPE: G - Safety Glasses, Gloves, Vapor Respirator

NFPA

- Health-NFPA: 1 - Slightly Hazardous Flammability-NFPA: 1 - Above 200°F Reactivity: 0 - Stable Specific Hazard: N/A

OTHER

Health Hazards

The local menus used on this screen are:

[LOCAL MENU 4845 – HEALTH LEVEL](#)

[LOCAL MENU 4846 – FLAMMABILITY LEVELS](#)

[LOCAL MENU 4847 – HMIS PHYSICAL HAZARDS](#)

[LOCAL MENU 4848 – PERSONAL PROTECTION EQUIPMENT](#)

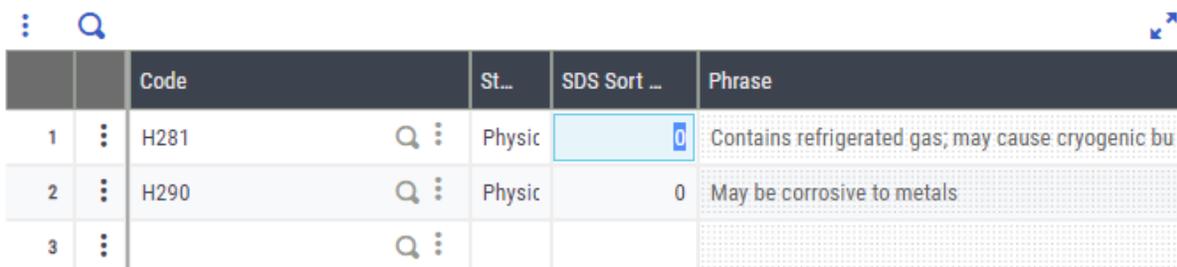
[LOCAL MENU 4849 – REACTIVITY](#)

[LOCAL MENU 4850 – SPECIFIC HAZARD](#)

Product Global Harmonization-Hazard Statement Section

GHS Hazard Statements can be manually edited or added in this section. These statements can also automatically populate from the CAS master data when a CAS number is defined for the product.

GHS - HAZARD STATEMENTS



		Code	St...	SDS Sort ...	Phrase
1	⋮	H281	Q ⋮ Physic	0	Contains refrigerated gas; may cause cryogenic bu
2	⋮	H290	Q ⋮ Physic	0	May be corrosive to metals
3	⋮		Q ⋮		

GHS hazard codes can be manually entered into the Code field. **Procession** is installed with the latest hazard codes from both the UN and ECHA. After installation, the hazard statements are not automatically updated, because many companies will edit the phrases or create their own. However, Provenio provides updates for these statements upon request.

In addition to allowing hazard codes to be manually entered, Hazard Statements can also be selected using the Hazard Statement Multiple Section feature. Instructions for creating these statements are in the setup section of this document under [GHS HAZARD STATEMENTS](#).

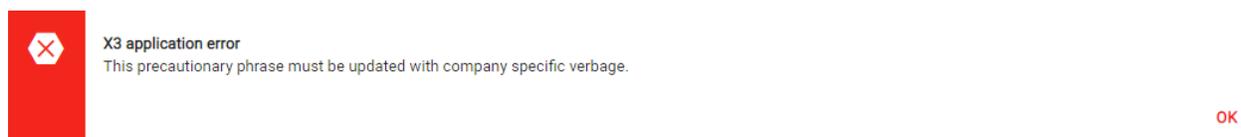
Product Global Harmonization-Precautionary Statements Section

GHS Precautionary phrases are maintained in this section. **Procession** is installed with the most recent precautionary phrases from the UN and ECHA.

Phrases are selected using the Precautionary Statement Multiple Selection feature.

If the selected phrase is marked as “Company Specific”, then the user will be prompted to edit the text for this phrase.

Sage X3 Version 12 example of “Company Specific” phrase message



Below is an example of two phrases that were selected for a product. The phrase “P230” is marked as company specific, because it is not a complete phrase. The phrase message above will appear when this phrase is selected.

GHS - PRECAUTIONARY STATEMENTS

		Code		Statement Type	SDS Sort ...	Phrase
1	⋮	P230	🔍 ⋮	Prevention	0	Keep wetted with □
2	⋮	P231	🔍 ⋮	Prevention	0	Handle under inert gas.
3	⋮		🔍 ⋮			

Product Global Harmonization – GHS Conversion Status Section

This section provides the current status of a product's GHS compliance.

GHS CONVERSION STATUS

GHS Not Required GHS Compliant Label GHS Planned Conversion GHS Actual Conversion

The options for this section are:

- **GHS Not Required** – If selected, this product does not require a GHS Conversion.
- **GHS Compliant Label** – If selected, the *Product Label* is GHS compliant. This field also controls whether a GHS label may be printed from the work order function.
- **GHS Compliant SDS** – If selected, the Safety Data Sheet is GHS compliant and approved by technical staff.
- **Planned Conversion/Actual Conversion Dates** – These dates help users plan and make decisions based on expected internal compliancy dates.

When both GHS Compliant Label and SDS options are marked, the product is considered GHS Compliant.

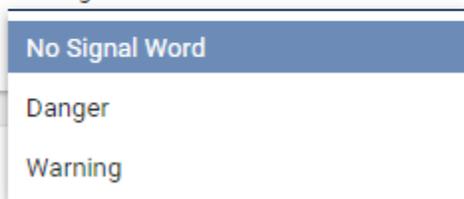
Product Global Harmonization - GHS Signal Word Section

The GHS signal word is assigned to the product in this section. The options are **No Signal Word**, **Warning**, and **Danger**.

GHS SIGNAL WORD

Signal Word

No Signal Word



Product - Regulatory Tab

Regulatory information for the product is entered on this tab. The information in this section is used in the following areas of **Procession**.

- Bill of Lading
- Sales Orders
- SDS

Note that product regulations were removed from this tab in Procession Neon. Instead, regulations are now stored for products in the right-panel menu option called Regulatory.

Product Regulatory –U.S. Regulatory Agencies Section

This section contains Yes/No flags fields for 6 different U.S. Regulatory Agencies. The purpose of this section is to record which agencies or independent groups govern the regulations or requirements that apply to this product.

The agencies listed in this section are:

- **EPA** – Environmental Protection Agency. The EPA numbers assigned to the product is recorded in the EPA# field.
- **FDA** – Food and Drug Administration.
- **NSF** – National Sanitation Foundation.
- **USDA** – United States Department of Agriculture.
- **OSHA** – Occupation Safety and Health Administration.
- **CPSC** – Consumer Product Safety Commission.

U.S. Regulatory Agencies

EPA #	FDA	NSF	USDA	CPSC	OSHA Hazard
<input type="text"/>	<input type="text" value="No"/>				

Product Regulatory - State/Province Regulatory Control Section

Certain types of products, such as biocides, may be banned or restricted in certain states or provinces based upon local regulations or product registration requirements. These restrictions can be managed with the State/Province Regulatory Control feature.

STATE/PROVINCE REG. CONTROL

State Registration	Country of Origin
→	→ FR
Q :	Q :
	France

When a State/Province Registration code is entered for a product, the feature can prevent products from being sold or delivered into certain states or provinces. This feature also requires the **Procession** Distribution module. Refer to the user guide for the Distribution module for more information on this feature.

Also, in this section is the Country of Origin field. The country of origin is an information-only field that represents the primary country of origin for the product. Note, if the product can be purchased from multiple countries, then it is recommended to track the country of origin at the lot level as well.

Product Regulatory - DOT Proper Shipping Name Section

This section is used to assign the UN number to a product, build the proper shipping name and specify the freight class and NMFC#.

DOT PROPER SHIP NAME

Proper Shipping Name

→ UN1970 Q :

Krypton, refrigerated liquid (

DOT Proper Ship Name

UN1970,Krypton, refrigerated liquid (cryogenic liquid),2.2

RQ Requirement	Marine pollutant	Freight class	NMFC #
0.000 LB	No	→	→
		Q :	Q :

The information in this section is used on the Bill of Lading, if the **Procession** Distribution module is also installed. This information can also be used on the SDS. For new products, the fields in this section default to the values defined on the Product Category.

The fields in this section are:

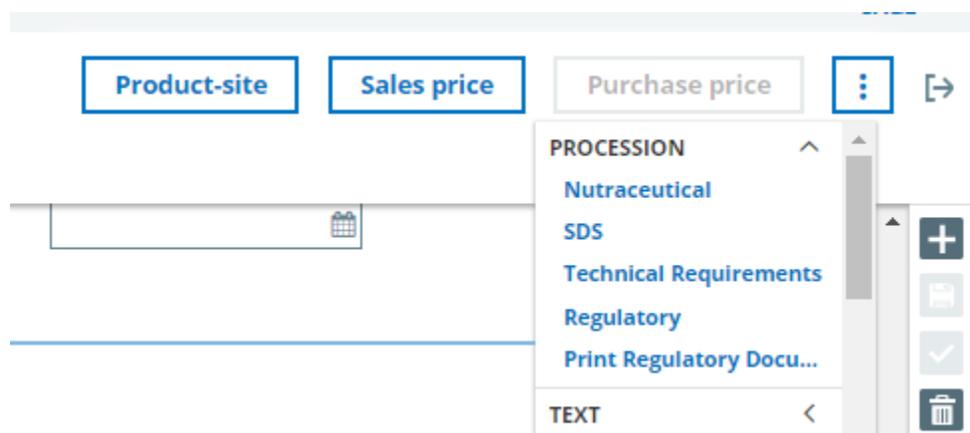
- **Proper Shipping Name** – Ship Code. This can be the UN number or custom ship code.
- **DOT Proper Ship Name** – Proper shipping name for ground shipments. This populates from the UN number or custom ship code selected in the Proper Shipping Name field.
- **RQ Requirements** – Minimum Package size for reporting RQ (“Reportable Quantity”) on the BOL.
- **Marine Pollutant** – Indicates whether this product is a marine pollutant.
- **Freight Class** – Freight class for the product. This field is populated from the DOT Proper shipping table. The value is based upon the density of the product and is used by the carrier for determining freight rates.
- **NMFC#** - National Motor Freight Classification number – Identifies the commodity type of the product and is also used by the carrier for determining freight rates.

For details on setting up the proper shipping name refer to the *Procession* Distribution Module User Guide.

Product Right Panel – Regulatory Menu Option (new in Neon)

Regulations and chemical list data for a product are recorded in this section. When a CAS number is added to a product, the regulations for the CAS number are added to this section. If a SDS exists for the product, these regulations will be updated automatically from the SDS if system parameter XBITMUPD is set to the value of “Yes”.

Additional regulations can be manually added into this section as well. The Regulatory option is found on the right panel as shown below.



sage X3

David Padgett Super administrator Neon Development

Procession > Regulatory Control Module > Enhancements

Procession Item Regulatory

Customer Distribution Log

Synchronized with Formula

Certifications

Required	Meets Standards	Code	Description	Default Frequency	Certified Date	Valid Until	Last Distrib...	Attachment	Change date	Change ...
<input type="checkbox"/>	<input type="checkbox"/>									

Regulations

171 Results Display: 15

Regulatory Code	Regulation Title	CAS Number	CAS Description	Notes	Section(s)	Regulatory Agency	C.	State/Prov
ADR	International Carriage of Dang	100-41-4	Ethylbenzene	D/E [UN1175] (I)				
AKCS	Australian Inventory of Chemic			Present				AU
AUHAZCLASS	Australia - List of Designated	124-68-5	2-Amino-2-methyl-1-propanol	XI R36/38, R52, R53				US
AUHAZCLASS	Australia - List of Designated	1314-13-2	Zinc oxide	Self classification required (dust and				AU
AUHAZCLASS	Australia - List of Designated	1897-45-6	Chlorothalonil	T+, XI, N Carc.Cat.3 R40, R26, R37, R41				AU
AUHAZCLASS	Australia - List of Designated	57-55-6	1,2-Propylene glycol	Self classification required (particulat				AU
AUHAZCLASS	Australia - List of Designated	100-41-4	Ethylbenzene	F, Xn R11, R20				AU
CAA	U.S. - CAA (Clean Air Act) - 1	100-41-4	Ethylbenzene	Present (listed under Ethyl benzene)				US
CAA13	Reactivity Factors for VOCs in	25265-77-4	2,2,4-Trimethylpentane-1,3-dio	0.89 g Ozone/g VOC Reactivity Factor				US
CAA13	Reactivity Factors for VOCs in	57-55-6	1,2-Propylene glycol	2.75 g Ozone/g VOC Reactivity Factor				US
CAA13	Reactivity Factors for VOCs in	124-68-5	2-Amino-2-methyl-1-propanol	15.08 g Ozone/g VOC Reactivity Facto				US
CAA13	Reactivity Factors for VOCs in	100-41-4	Ethylbenzene	2.79 g Ozone/g VOC Reactivity Factor				US
CAA22	VOCs with Negligible Photochem	124-68-5	2-Amino-2-methyl-1-propanol	Present				US
CAAHONSOCMI	U.S. - CAA (Clean Air Act) - H	57-55-6	1,2-Propylene glycol	Group I				US
CAAHONSOCMI	U.S. - CAA (Clean Air Act) - H	100-41-4	Ethylbenzene	Group I				US

This window contains both Regulatory Documents and Regulations.

Regulatory Documents are documents that need to be distributed to a customer. Safety Data Sheets and Certificates are examples of a Regulatory Documents. These documents can be setup to distribute with each shipment, or each time the document is changed, or on a periodic frequency. Refer to [REGULATORY DOCUMENT TEMPLATES](#) for more information on creating Regulatory Documents. Refer to the *Procession* Distribution Enhancements User Guide for more information on how these documents are distributed and tracked.

The regulations show in this section show the regulatory agencies and the countries or states to which the regulation applies.

Fields in the Regulatory List include:

- **CAS #** - CAS number for which the regulation applies.
- **Regulatory Code** – Regulation ID from the regulatory list.
- **Regulation Title** – Description for the regulation.
- **Notes** – Additional notes about the regulation.
- **Section(s)** – Reference field contains the section number of the regulation.
- **Regulatory Agency** – Regulatory agency that governs the regulation.
- **Country** – Country to which the regulation applies.
- **State/Province** – State or province to which the regulation applies.

Chemical Database

The regulatory and classification data related to chemicals are constantly changing. In *Procession* chemical data is stored in the [CAS MAINTENANCE](#) feature.

In *Procession*, chemical data can be either maintained with either of the following options:

- Imported from a subscription to a chemical database or
- Manually maintained using the *Procession* CAS Maintenance feature

These two options are described in the sections that follow.

Import Options

Procession provides the following options for importing chemical data:

- Import Chemical Data Utility
- Import Templates
- Web services

Import Chemical Data Utility

The Import Chemical Data feature provides integration to the UL/ChemAdvisor® LOLI (List of Lists). LOLI is an optional paid subscription service that is not included with the *Procession* Regulatory Control module, but this service can be added to *Procession* at any time. The LOLI subscription is an annual service and can be ordered as an add-on to *Procession*.

Different subscription pricing levels are available for the LOLI database, including pricing based upon volume. The LOLI data is supplied as either:

- SQL database that you install on your server, or
- Web Service API calls that supply the LOLI data on demand

The *Procession* Chemical Data Import feature supports both the database and API subscription levels. This feature can be accessed from the menu path **Procession**→**Regulatory Control Module**→**Utilities**→**Import Chemical Data**.

Setup

Before first using the Import Chemical Data feature, the LOLI integration must be configured. For information on how to configure this integration, refer to [APPENDIX 7 – LOLI DATABASE SETUP](#).

Importing

The *Procession* Import Chemical Data feature imports the data from the LOLI database and updates the *Procession* CAS Maintenance database.

All > Procession > Regulatory Control Module > Utilities Default ▾

Chemical Data Import Process Records [⋮] [X]

LOLI Criteria

Loli Data Source

Database
 API - Web Service

Filter conditions

CAS Number **EC Number**

LOLI Update Types

Update Regulations Update Exposures Update Hazard Categories Update Properties Update Toxicity

GHS LOLI Data

GHS LOLI Locale **Update GHS Info**

All Locales
 Specific Locale
 None

LOLI Login Info

LOLI Database Name Print Change Log

The fields on this screen include:

- **LOLI Data Source** – Option for selecting the subscription option that is configured on this system.
- **CAS Number Range** – Range of CAS numbers to update, or blank for all.
- **EC Number Ranges** – Range of EC Numbers to update, or blank for all.
- **Update Regulations/Exposures/Hazard Categories/Properties/Toxicity** – Indicates which data points will be updated during the import.
- **Update GHS Info** – Determines if GHS information will be updated on the CAS Maintenance record. This GHS information includes GHS Pictograms, Hazard Phrases, Pre-cautionary Phrases, Signal Word and the classification text box. This information is pulled, based upon a compilation of GHS data, from the selected locales. This GHS information is primarily for reference, since the hazard category/classification data is used to determine GHS information during the SDS Generation.
- **GHS LOLI Locale** –Indicates which locale to use as the source of the GHS information.
- **LOLI Database Name** – If using the LOLI database subscription option, this field must contain the name of the LOLI database.

LOLI LOGIN INFO

LOLI Database Name

LOLI4_Datafeed

The import is started by clicking on the **Process Records** button. As the data is being imported, the system will show the progress with the LOLI status window.

The screenshot shows the 'LOLI Status' window with the following fields:

Current CAS #	Total # of CAS	CAS-No	Current GHS List
1	1	50-00-0	0

After the import has completed, a log file will show which records were updated.

Log Reading F8979



The log file content is as follows:

Line	Content
1	-----
2	LOLI Settings
3	Update Exposures : Yes
4	Update Properties : Yes
5	Update Toxicity/Eco-Toxicity: Yes
6	Update Regulations: Yes
7	Update GHS Data: Yes
8	-----
9	LOLI SQL Server: SAGEX3V11
10	X3V11
11	LOLI Database Name: LOLI4_Datafeed
12	LOLI User Name: sa
13	-----
14	X3 SQL Server: SAGEX3V11
15	X3V11
16	X3 Database Name: x3
17	X3 User Name: sa
18	-----
19	50-00-0-Regulations have been updated.
20	50-00-0-Toxicity and Eco-toxicity have been updated.
21	50-00-0-Exposures have been updated.
22	50-00-0-Properties have been updated.

After closing the log, if there were any changes to the Hazard Classifications, the system will automatically print the Hazard Classification Changes report.

Job title	Hazard Class Update
Phase	Job finished
Start date	2/9/2019
Start time	9:48 AM

Report available in storage area.

Request considered

Hazard Classification Changes

Session #: 15307635272DJP

Date Date: 2/9/2019

<u>Hazard Code</u>	<u>Hazard Classification</u>	<u>Previous Value</u>	<u>New Value</u>
50-00-0	Formaldehyde		
U.S.A & Canada			
ACUTD	Acute Toxicity - Dermal		2
ACUTE	Acute Toxicity		2
ACUTI	Acute Toxicity - Inhalation		2
AQUAA	Acute Toxicity-Aquatic		2

The Import Chemical Data feature only updates the **Procession** CAS Maintenance records. The import does not automatically update CAS information on products, SDS, or formula records. To push the updated data out to products and SDS records, use the [PUBLISH CHEMICAL DATA](#) utility. Classifications can be updated on a formula, using the [CLASSIFY HAZARDS](#) feature.

Import Templates

Procession import templates can be used when importing chemical data from sources other than the LOLI database. **Procession** provides the following import/export templates. For more information regarding importing with **Procession** templates, refer to the **Procession** Setup & Technical Guide.

Import/export templates

Clear filter

Template	Description
XJBC	
XJBCAS	CAS Master Import
XJBCASEXPO	CAS Exposure Limit impor
XJBCASGHS	CAS GHS Import
XJBCASHAZ	CAS Hazard Phrases
XJBCASPRE	CAS Precautionary Phrase
XJBCASREG	CAS Regulatory Import
XJBCASTOX	CAS Toxicity-Eco Import

Incoming Web Service Calls

Web services are a tool that allows two systems to communicate across a network or the internet. In the [IMPORT CHEMICAL DATA UTILITY](#), **Procession** provides functionality for using web services to make an outgoing call in order to pull or retrieve data from a LOLI subscription. However, web services can also be used to place an incoming (“push”) web service call, in order to populate the chemical data from sources other than LOLI.

Web services functionality is built into Sage X3. Since **Procession** is built using the Sage X3 API toolset, **Procession** shares this web service functionality with Sage X3. Using web service functionality, chemical data can be pushed into the **Procession** CAS Maintenance feature. In order to use web services to populate the chemical data in **Procession**, the CAS Maintenance object (“XKA”) must first be published as a web service.

The web service functionality varies from one version of Sage X3 to the next and incoming web services are not setup by default in **Procession**. Before using incoming web service calls to populate chemical data in **Procession**, it is recommended that the web service be setup by a consultant who is certified on both Sage X3 and **Procession**.

For more information on publishing a web service, refer to the Sage X3 help files.

CAS Maintenance

The **Procession** CAS Maintenance feature is where the chemical data for individual chemicals are stored and maintained. This data can be imported, updated from a chemical database subscription, or manually maintained from supplier safety data sheets.

The data from the CAS Maintenance is used in the following areas of **Procession**:

- Safety Data Sheets
- Products
- Formula Classifications

CAS Master – Header

The screenshot shows the 'CAS Maintenance' header form. The breadcrumb trail is 'All > Procession > Regulatory Control Module > Maintenance/Setup'. The form title is 'CAS Maintenance' with a 'Cancel' button and a menu icon. Below the title are tabs for 'SETTINGS', 'GHS', 'EXPOSURE LIMITS', 'PROPERTIES', 'TOXICITY/ECOTOXICITY', 'REGULATIONS', and 'HAZARD CLASSES'. The 'SETTINGS' tab is active. The form contains the following fields:

CAS-No	Chemical Name	<input checked="" type="checkbox"/> Allow LOLI Updates	Last LOLI update
7732-18-5	Water		01/16/19

The following fields are available on the header for a CAS record:

- **CAS-No** – CAS number for the chemical.
- **Chemical Name** – Chemical name.
- **Allow LOLI Updates** – Controls whether the data for this CAS record can be overwritten during an update from a LOLI subscription. If the CAS data will be manually maintained, then this option should be unselected.

CAS Master – Setting Tab

The screenshot shows the 'SETTING' tab of the CAS Master form. The title is 'SETTINGS'. Below the title is the 'ADDITIONAL IDENTIFICATION' section. The form contains the following fields:

Index No.	EC No.	REACH No.
	200-001-8	

Classification
Acute Tox. 2 Aquatic Acute 2 Carc. 1A Skin Corr. 1B Eye Irrit. 2A Flam. Gas 1 Flam. Liq. 3 Pres. Gas Liquefied gas Muta. 1B Resp. Sens. 1 Skin Sens. 1 STOT RE 1 STOT SE 1

Molecular Formula
CH2O

Show on SDS if weight % greater than Trade secret

Options on this tab include:

- **Index No.** – Index number from the European list of dangerous chemicals
- **EC No.** – European Community Number

- **Reach No.** – Reference number issued by the European Chemicals Agency (ECHA)
- **Classification** – Hazard classifications, which will show in Section 3 of the SDS for this CAS number.

Note that the classifications in this text box may be different than the classifications that appear on the Hazard Classes tab of this record. The reason is that the Hazard Classes tab may contain data from several different locales and the classifications may differ from one locale to the next. When classifying hazards for a formula, only the data on the Hazard Classes tab is used.

- **Molecular Formula** – Molecular formula for the chemical.
- **Show on SDS** – If selected, then if this chemical is included in a formula, it will show on the SDS for that formula if its weight % is greater than the value in the “If weight % greater than” field.
- **If weight % greater than** – This condition allows this chemical to show on the SDS only if its percentage of the formula is greater than the amount specified.
- **Trade Secret** – If selected, then do not show this CAS number or chemical name on the SDS. The words “Trade Secret” will show instead, in place of the CAS number.

3.2 Mixtures

Chemical Name	CAS Number	EC No.	Concentration %	Classification
Trade Secret			20 - 30	Aquatic Chronic 4 Eye Irrit. 2B STOT RE 1

CAS Master – GHS Tab

This tab contains the GHS pictograms, hazard statements, and precautionary phrases for the CAS number.

The screenshot shows the 'CAS Maintenance' interface with the 'GHS' tab selected. The interface is divided into three main sections: GHS - Pictograms, GHS - Hazard Statements, and GHS - Precautionary Statements.

GHS - Pictograms

Explosive Flammable Oxidizing Compressed Gas Toxic Corrosive Irritant Health Hazard

Env Damaging

GHS - Hazard Statements

	Code	H...	SDS S...	Phrase	Langua...
1	H225	Q	PI	0 Highly flammable liquid and vapour.	ENG
2	H332	Q	H	0 Harmful if inhaled.	ENG
3	H319	Q	H	0 Causes serious eye irritation.	ENG
4	H335	Q	H	0 May cause respiratory irritation.	ENG
5		Q			

GHS - Precautionary Statements

20 Results Display: 20 12

	Code	Statement Type	SDS S...	Phrase	Langua...
1	P233	Q	Prevention	0 Keep container tightly closed.	ENG
2	P210	Q	Prevention	0 Keep away from heat/sparks/open fl	ENG
3	P240	Q	Prevention	0 Ground/Bond container and receivin	ENG
4	P241	Q	Prevention	0 Use explosion-proof electrical/ventila	ENG
5	P242	Q	Prevention	0 Use only non-sparking tools.	ENG
6	P243	Q	Prevention	0 Take precautionary measures against	ENG

GHS Signal Word

Signal Word

No Signal Word

Phrase Selection Filter

Language

→ ENG

If manually adding phrases, first select the Phrase Selection Filter language. When selecting a phrase, only phrases of this language will appear. Only one language is required for phrases, however, phrases for multiple languages can be added. These phrases are for reference only for the CAS record and are not used in SDS generation.

CAS Master – Exposures Tab

EXPOSURE LIMITS

5 Results Display: 25

	Exposure Type	Exposure Value	Exposure Form	Exposure Notes	LOLJ List ...
1	BRITISH COLUMBIA	0.3 ppm			545
2	FRANCE OEL TWAs	0.5 ppm			752
3	NIOSH	0.016 ppm			399
4	OSHA PEL	0.75 ppm			264
5	AIHA - WEELS - TWAs	3 ppm			282
6					

Exposure limits for the CAS number is defined on this tab. This exposure data is loaded into the product when a CAS number is selected for a product. This data is also loaded into an SDS when an SDS is generated or a CAS number is selected on the SDS.

The fields in this section are:

- **Exposure Type** – Authority that has issued the exposure guidelines.
- **Exposure Form** – Can be either the method of exposure, such as vapor, or else it can be the measurement method such as TWA.
- **Exposure Value** – Alphanumeric field that contains the exposure limit value.
- **Exposure Notes** – Alphanumeric field for entering additional notes regarding the exposure limit.

CAS Master – Properties Tab

PROPERTIES

PROPERTY TYPE

Property Type

PROPERTIES

19 Results Display: 5

	ID	Property Name	Property Value	Sort Order	Qty.	UOM	Qty.	UOM	LOLJ List ...
1	APP	Appearances	Colorless solutions or gas						12
2	AUTOI	Autoignition Temp	423.89 °C						9
3	BDIL	Boiling Points	-19.5 °C						13
4	COEOD	Coefficient of Octanol	0.35 at 25 °C						11
5	COLOR	Colors	colorless						2464

Properties of the chemical are defined on this tab. This data is primarily for reference. The property data can be published to a product and/or SDS using the Mass CAS update feature, but only if the product is for a substance that contains a single CAS number. For information on the fields in this section, refer to [PRODUCT PROPERTIES](#).

CAS Master – Toxicity/Eco-toxicity Tab

TOXICITY/ECOTOXICITY									
TOXICITY									
	Route	Test Type	Species	Effective Dose	Note	Source	Exposure Time	LOLI List	
1	DERMAL	LD50	RABBIT	+ 270 mg/kg		NLM_CIP			571
2	INHALATION	LC50	RAT	+ 0.578 mg/L		NLM_CIP	4 h		571
3	ORAL	LD50	RAT	+ 600 mg/kg		JAPAN_GHS			571
4									

ECOTOXICITY									
	Test Type	Species	Effective Dose	Exposure Time	Note	Source	Method	Class of Species	LOLI List
1	EC50	DAPHNIA MAGNA	11.3 - 18 mg/L	48 h		EPA	Static		733
2	LC50	PIMPHALES PROMELAS	22.4 - 23.7 mg/L	96 h		EPA	flow-through		625
3	LC50	LEPOMIS MACROCHIRUS	+ 1510 µg/L	96 h		EPA	static		625
4	LC50	BRACHYDANIO GREGIO	+ 41 mg/L	96 h		IUCIUD	static		625
5	LC50	ONCORHYNCHUS MYKISS	0.032 - 0.228 mL/L	96 h		EPA	flow-through		625
6	LC50	ONCORHYNCHUS MYKISS	100 - 136 mg/L	96 h		EPA	static		625
7	LC50	PIMPHALES PROMELAS	23.2 - 23.7 mg/L	96 h		EPA	static		625
8	LC50	DAPHNIA MAGNA	+ 2 mg/L	48 h		IUCIUD			733
9									

Toxicity and Eco-toxicity are maintained for the chemical on this tab. The toxicity and eco-toxicity data is stored onto an SDS when an SDS is generated or when a CAS number is added to the SDS.

The fields in the Toxicity grid are:

- **Route** – Route of exposure.
- **Test Type** – Test type.
- **Species** – Species upon which the test was performed.
- **Effective Dose** – dose given to the subjects.
- **Note** – Notes regarding the results.
- **Source** – Source for the toxicity data.
- **Exposure Time** – Length of exposure.
- **LOLI ID** – If data originated from LOLI, this is the LOLI list ID.

The fields in the Eco-toxicity grid are:

- **Test Type** – Test type.
- **Species** – Species upon which the test was performed.
- **Effective Dose** – dose given to the subjects.
- **Exposure Time** – Length of exposure.
- **Note** – Notes regarding the results.
- **Source** – Source for the toxicity data.
- **Class of Species** – Type of species upon which the test was performed.
- **Method** – Test method.
- **LOLI ID** – If data originated from LOLI, this is the LOLI list ID.

CAS Master – Regulations Tab

Regulatory Code	Regulation Title	On List	Import/Manufacturer	Threshold	Notes	Section(s)	Regulatory Agency	Country/IL	Status/Process
1 CA413	CL Reactivity Factors for VOCs in Aerosol Coatings	Yes	-	0.0000	8.97 g/100mg VOC Reactivity Factor	-	-	US	CL
2 EPA3712	CL Sparsened/HPV Chemicals	Yes	-	0.0000	Present	-	EPA	US	CL
3 AICS	CL Australian Inventory of Chemical Substances (AICS)	No	-	0.0000	-	-	Australian Department of	AU	CL
4 CEPA	CL CEPA Toxic Substances List	Unspecified	-	0.0000	-	-	Environment Canada	CA	CL
5 DSL	CL Canadian Domestic Substances List	Unspecified	-	0.0000	-	-	Environment Canada	CA	CL
6 ELINCS	CL European List of Notified Chemicals (ELINCS)	Unspecified	-	0.0000	-	-	ECHA	EU	CL
7 NDSL	CL Non-Domestic Substances List (NDSL)	Unspecified	-	0.0000	-	-	Environment Canada	CA	CL
8 TSCA	CL TSCA (Toxic Substances Control Act) Inventory List	Unspecified	-	0.0000	-	-	EPA	US	CL
9 CAA29	CL Urban HAPs List (Integrated Urban Strategy)	Yes	-	0.0000	Present	-	-	US	CL
10 FDA746	CL Direct Food Additives	Yes	-	0.0000	21 CFR 173.340	-	-	US	CL
11 CAA15	CL Accidental Release Prevention - Toxic Substances	Yes	-	0.0000	15000 lb threshold quantity (Solution)	-	-	US	CL
12 CAA28	CL Volatile Organic Compounds (VOCs) in SOCM	Yes	-	0.0000	Present	-	-	US	CL
13	CL	-	-	-	-	-	-	-	CL

In regulations section, the regulations associated with this chemical can be defined. This list can contain both regulations for which reporting is required, as well as regulations that have been reviewed and determined not to apply to this chemical.

In addition, this section can be used to specify if a chemical exists on a chemical lists. Examples of chemical lists are:

- **TSCA** – Toxic Substances Control List
- **DSL** – Canadian Domestic Substances List
- **NDSL** – Canadian Non-Domestic Substances List

Fields in this section include:

- **Regulatory Code** – Regulation identifier.
- **Regulation Title** – Description for the regulation.
- **On List** – Determines the regulatory reporting requirement for this chemical. Options are:
 - **Yes** – Either the regulation is a chemical list containing this chemical or the regulation requires reporting of this chemical. Examples of a reporting requirement would be if the chemical must be listed on the SDS or reported to an environmental agency or emergency responders.
 - **No** – This regulation does not require that this chemical be reported. However, this regulation may still be reported on an SDS which contains this chemical, in order to provide assurance that the regulation does not apply to this chemical.
 - **Unspecified** – Indicates that it has not been determined whether the regulation applies to this chemical.
- **Import/Manufacturing Limit** – When a country or authority places a chemical on an inventory list, there may be limits on how much of that chemical can be received from outside of the country with a specific time period. There may also be limits on how much of a chemical can be produced by the company. This limit can be set in this field and the value is used in the **Procession REGULATION REPORTING** feature. An example of inventory lists with limits is the Canadian Non-Domestic Substances List or the U.S.A. TSCA Section 5.

- **Threshold** - allows the definition of a reporting quantity threshold for the regulation. This represents an inventory quantity limit for this chemical at a site. This threshold is used for regulations such as the U.S.A. SARA/Community Right to Know Act.

The Threshold value is an alphanumeric field and can contain both the quantity and unit (ex. "100 KG"). The unit is not required, but if it is entered, it must follow the quantity and must be separated with a space after the quantity.

The threshold value is used in the **Procession** [REGULATION REPORTING](#).

- **Notes** – Additional notes. The notes will print in section 15 of an SDS when this chemical is added as component.
- **LOLI List ID** – If LOLI integration is installed, this ID maintains a link to the LOLI data. This field also serves as a flag to indicate whether the regulation should be updated by LOLI or if it should be manually maintained instead. If the LOLI List ID has a value of 0, then this regulation will not be automatically updated.

CAS Master - Hazard Classes

HAZARD CLASSES

HAZARD CLASS

38 Results Display: 10

ID	Description	Hazard Class	US/Canada	E.U.	Australia	Japan	Korea
1	ACUTD Acute Toxicity - Dermal	HEALTH	2	3		3	2
2	ACUTE Acute Toxicity	HEALTH	2	3		2	2
3	ACUTI Acute Toxicity - Inhalation	HEALTH	2	3		2	2
4	ACUTO Acute Toxicity - Oral	HEALTH	2	3		4	2
5	AQUAA Acute Toxicity-Aquatic	ENVIRONMENT	2			2	
6	AQUAC Chronic Toxicity-Aquatic	ENVIRONMENT					
7	ASPIR Aspiration	HEALTH					
8	CARCN Carcinogenicity	HEALTH	1A	1B		1A	1A
9	CORMT Corrosive to Metals	PHYSICAL					
10	CORRO Skin Corrosion/Irritation	HEALTH	1B	1B		2	

The hazard classifications for the chemical are defined on the Hazard Classes tab. The classifications are managed by Locale and up to 9 locales are supported. Each row in this grid represents a different hazard category. The allowed values vary by category.

Allow values and categories are defined in [MISCELLANEOUS TABLE 4859 – HAZARD CLASSIFICATIONS](#).

The hazard classifications for a chemical are used in the R&D Formula feature when performing hazard classifications (requires the **Procession** Pre-sales/Formulation module).

More information on hazard classifications can be found in the OSHA Hazard Classification Guidance publication or the U.N. Purple Book.

<https://www.osha.gov/Publications/OSHA3844.pdf>

https://www.unece.org/trans/danger/publi/ghs/ghs_rev06/06files_e.html

Publish Chemical Data

The Publish Chemical Data Utility is used to publish changes to the CAS Maintenance data out to any SDS or Product that contains the chemical. This feature can be accessed from the menu path **Procession**→**Regulatory Control Module**→**Utilities**→**Publish Chemical Data**.

The screenshot shows the 'Publish Chemical Data' utility interface. It includes search fields for 'CAS-No', 'CAS Ending', 'Product', 'To product', and 'Category'. There are three sections of checkboxes: 'Types to Update' (Products, SDS, Create New SDS Revision), 'Sections to Update' (CAS Ids, GHS, Exposure, Properties, Toxicity, Ecotoxicity, Regulations), and 'Substances Only' (NFPA, Health Hazards, Density). At the bottom, there is a table with columns: SDS ID, Revision ..., Previous, Product, L..., and Locale. The table has one row with the number '1' in the first column.

This utility can update different types of sections on the product and SDS, based upon whether the product is a mixture or substance. When a product is a pure substance, it should have a single CAS number and should share the GHS, Properties, NFPA, Health Hazard, and Density of the CAS record. However, when a product is a mixture, it will not share these same values with the CAS record.

Both mixtures and substances can be updated for CAS Ids, Exposure, Toxicity, Eco-Toxicity, and Regulations.

Each of the checkboxes on this utility are used to control whether that type of data is updated.

Other fields on this window are:

- **CAS-No. Range** – Controls which CAS records are published.
- **Product Range** – Controls which products are updated.
- **Category** – Controls which type of product is updated.
- **Create New SDS Revision** - If this is selected, then each time that an SDS is updated from CAS data, if there are changes in that data, then a New SDS Revision will be automatically created.

Any new SDS revisions that are created will be listed in the “SDS Created” grid at the bottom the windows.

This utility can be run in Simulation mode by pressing the “Simulation” button. When run in Simulation mode, the system will return a report showing what products and SDS will be updated and what data will change. However, in Simulation mode, the data will not be updated.

To run the utility and update records, press the “Process” button. After updating, this option will print a report showing everything that was updated.

Change Log-CAS Update							Page 1 of 4
PRODUCT FG500-BULK		Paint-Low VOC Acrylic Gloss					
CAS#	Additional Id	Type	Table	Field	Previous Value	New Value	
13463-67-7		UPDATE	XJBITMGHS	DTY	1.4157	3.9	
PRODUCT RM505		Titanium Dioxide					
CAS#	Additional Id	Type	Table	Field	Previous Value	New Value	
13463-67-7		UPDATE	XJBITMGHS	DTY	4	3.9	

Regulatory Document Templates (New in Neon)

To define a new Regulatory Document, navigate to **Procession**→**Regulatory Control Module**→**Maintenance/Setup**→**Regulatory Document Templates**.

The screenshot displays the Sage X3 interface for configuring Regulatory Document Templates. On the left, a list of templates is shown with columns for Document Id and Description. The main area is titled 'Regulatory Document Templates' and shows details for the 'ALLERGEN' template. The configuration includes fields for Document Id (ALLERGEN) and Description (Allergen Statement). Below this, the 'Details' section is expanded to show 'Settings' with fields for Report (XJB1REGDOC), Default Destination (PREVIEW), Frequency (Manual), and Shipper Code. A 'Signator' field is set to 'JS' (John Smith). The 'Show on Report' section has checkboxes for Date, Product Id, Description, Customer, and Allergen List, all of which are checked. The 'Report section' is divided into Header, Salutation, Body, and Footer. The Body section contains a text area with the placeholder text: 'This is to certify that to the best of our knowledge, the above product contains only the following allergens:'. The right-hand sidebar contains a 'SELECTION' menu with options like UTILITIES, HELP, and DIAGNOSIS, along with various utility icons.

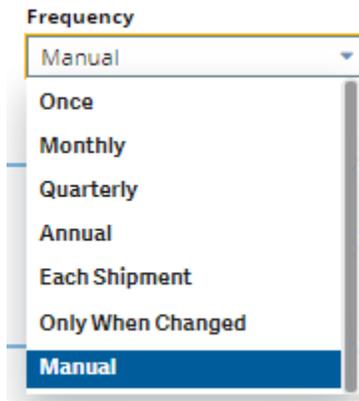
This feature is used to define report templates for different documents and define the default frequency for which the document should be distributed. Typical examples are certifications and safety data sheets.

These templates allow you to define the text that will print in certain sections of the document. The template can also specify which customer, product or allergen information to print.

The fields on this template are:

- **Document Id** – The ID for the record. This ID is user defined and it is not system generated.
- **Description** –
- **Report** – The X3 report to use when printing this document. The default report is XJB1REGDOC and this report is designed to generic so that it can be used for most documents.

- **Default Destination** – The X3 destination for the report. This can be a printer, preview or a message/email type destination.
If the destination is of type Message, then the XJBPRINT workflow rule should be configured to automatically email the report. Refer to the Procession Setup and Technical Guide for more information on how to setup the XJBPRINT workflow.
- **Frequency** – This option is used to define how often the Regulatory Document should be distributed. For example, if the document is set to distribute annually, then once the product’s document has been delivered to the customer, the document will not be required again for another year.



Most of the frequency options are self-explanatory. However, the “Only When Changed” option requires some additional information. This option is used to indicate that the document will only be sent if the “Change Date” on the Regulatory Document record on the Product is more recent than the last date the document was sent. This date can be used to trigger new versions of the product’s document to be sent to customers.

The Manual option indicates that the document will **not** be sent when the “Print Regulatory Documents” option is selected on the Product, Sales Order or Delivery. Instead, documents that are set with a “manual” frequency, must be manually distributed.

- **Shipper Code** – A shipper code can be used to define the logo that will print on the document. If a shipper code logo is not provided, then the default logo defined for the company will be used (**Setup**→**Organizational structure**→**Companies**).
- **Signator** – Defines the signature line for the document.
- **Show On Report** – This section contains checkboxes which are used to define whether certain sections of data will display on the report. The data in each of these report sections is dynamic and is determined by the product and customer for the sales order.

Date Product Id Description Customer Allergen List

- **Header** – Defines text which will show before the salutation line of the document.
- **Salutation** – Defines the text for the Salutation (ex. “To whom it may concern”).
- **Body** – Defines the body of the document.
- **Footer** – Defines the text that prints after the signature line.

An example of a regulatory document is shown below.



Date: 7/23/2020

Product: ZSUGARCOOKIES

Description: Sugar Cookies

Customer:

This is to certify that to the best of our knowledge, the above product contains only the following allergens:

Allergen List:

- Egg
- Milk
- Wheat

Sincerely,

A handwritten signature in black ink that reads 'John Smith'.

John Smith

Director

Quality Assurance

Requirements by Country (New in Neon)

This feature is used to define regulatory requirements by country for the application for which the product will be used. This feature is used in the **Procession** Formulation Module in order to determine if the formula contains any regulatory issues or concerns.

This feature can be accessed from the menu **Procession**→**Regulatory Control Module**→**Maintenance/Setup**→**Requirements by Country**.

↑ ↑ ↓ ↓ **Requirements by Country**

Detail

ID: USFOOD Application: → FOOD (Food for Human Consum...) Country: → US

Detail

Acceptance Criteria

	Regulation ID	Description	Required
1	FDAGRAS	U.S. - FDA - Food Additives Ge	<input checked="" type="checkbox"/>
2	FDAINDIRECTFOOI	U.S. - FDA - Indirect Food Add	<input type="checkbox"/>
3			<input type="checkbox"/>

Rejection Criteria

	Regulation ID	Description	Maximum %
1	FIFRA	U.S. - FIFRA - Listing of Pest	1.00
2			

The fields on this window are:

- **ID** – This is a user-defined identification field.
- **Application** – Defines the application for the formula. Examples of application could be, Food for Human Consumption, Cosmetics, Paint, etc. Regulations for a chemical can vary based upon its application. On a formula, the regulatory compliance check is performed using the Classify Hazards option. When this check occurs, only the “Requirement by Country” that have the same application as the formula are used in the compliance check.
- **Country** – The country for which the compliance check is being performed. A different requirement record should be created for each country into which a product can be sold.

Acceptance Criteria - In this grid, the “good” regulations are listed, or in other words, the positive classifications by a regulatory agency. These are the regulations that are acceptable if they are found to be applicable to a component on the formula.

If the Required checkbox is selected, it indicates that each component, is required to have this regulation and the formula will be considered out of compliance if a component does not have this regulation.

Rejection Criteria – in this grid, the “bad” regulations are listed, or in other words, the potential hazards or hazardous classifications as defined by a regulatory agency. If a component has a regulation that is in this list, whose composition in the formula exceeds the maximum %, then the formula is considered to be out of compliance.

Formula Hazards Classifications/SDS Generation

The **Procession** Regulatory Control module adds functionality to the R&D Formula for classifying hazards and generating an SDS. This feature required the **Procession** Pre-sales/Formulation module.

R&D Formulas can be accessed from the path **Procession**→**Formulation Module**→**R&D Formulas**.

The Hazards tab can be found on the R&D Formula window. The sections of this tab are described below.

Certification

The certification section is used to certify the formula hazards after the hazards have been reviewed. When the hazards have been certified, the fields on the hazards tab will become un-editable. The hazards must be certified before an SDS can be generated for the formula.

	Source	Lo.	CAS No.	CAS Description	Ingredient	Lower %	Upper %
1	Auto	<input type="checkbox"/>	13463-67-7	Titanium dioxide	RMS05	21.94	
2		<input type="checkbox"/>					

The fields in this section are:

- **Last Auto Classify** – The last date that the Classify Hazards right panel menu option was used to automatically classify this formula.
- **Certified** – When marked, it indicates that the formula has been certified.
- **Certified By** – The user who certified the formula.
- **Date** – Date of the certification.

Composition

The composition grid shows the composition of the formula based upon the CAS numbers of the chemicals used on the formula. The composition is automatically populated when the Classify Hazards menu option is executed, but the data can be manually edited.

The composition Grid contains the following fields:

- **Source** – If the CAS record was automatically determined, this field will have a value of “Auto”. A value of “Manual” indicates that the record was either manually added or edited.
- **Lock** – When marked, this prevents the record from changing when the Classify Hazards menu option is run.
- **CAS-No.** – CAS number for the chemical.
- **CAS Description** – Chemical name.
- **Ingredient** – Ingredient that contains the chemical. If more than one ingredient contains the chemical, then this field will be blank.
- **Lower %** - Lower or exact weight percentage of the chemical.
- **Upper %** - Upper weight percentage of the chemical. Note, this field can be blank if the Lower% contains the exact weight percentage instead of a range.

Hazard Ratings Factors

The Hazard Rating Factors section allows property information to be entered for a formula. This property information is used in the hazard classifications. When an SDS is generated from the formula, this information populates the properties and toxicity sections of the SDS.

Physical State SDS Revision Num Revision Date
 Liquid 2 01/30/19

HAZARD RATING FACTORS

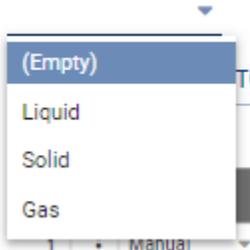
9 Results Display: 10

	Source	Lo...	Type	Value	Unit	Form
1	Auto	<input type="checkbox"/>	LD50 DERMAL	0.0	mg/kg	
2	Auto	<input type="checkbox"/>	LD50 ORAL	0.0	mg/kg	
3	Manual	<input type="checkbox"/>	LC50 INHALATION	0.0		
4	Manual	<input type="checkbox"/>	Flash Point	130.0	°C	
5	Manual	<input type="checkbox"/>	Boiling Range Low	110.0	°C	
6	Manual	<input type="checkbox"/>	Boiling Range High	115.0	°C	
7	Manual	<input type="checkbox"/>	LEL (Lower Explosive Limit)	0.0	%	
8	Manual	<input type="checkbox"/>	UEL (Upper Explosive Limit)	0.0	%	
9	Manual	<input type="checkbox"/>	Autoignition Temp	160.0	°C	
10		<input type="checkbox"/>				

The fields in this section are:

- **Physical State** – Select the form of matter for the formula. This must be selected before running the Classify Hazards right-panel menu option.

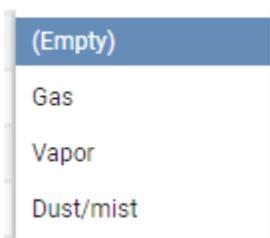
Physical State



- **SDS Revision Number** – If an SDS was generated from this formula, this is the revision number for that SDS.
- **Revision Date** – Date that the SDS Revision was generated from the formula.

The fields in the grid of this section are:

- **Source** – Specifies if the value was manually entered or if it was automatically determined. **Procession** will determine the first two values, Dermal and Oral toxicity from the CAS numbers in the composition. The other values in this grid must be manually entered.
- **Lock** – If locked, then the value cannot be overwritten when the Classify Hazards option is run.
- **Type** – Description of the property.
- **Value** – Value of the property.
- **Unit** – Unit of measure for the property. This unit is automatically determined for all properties, except Inhalation toxicity, for which the unit must be specified.
- **Form** – Used for Inhalation toxicity, the possible values shown in the list below.



Hazard Categories

This section contains the hazard classifications for the formula. Hazard ratings for each category are shown by Locale. The hazards that show with “Auto” in the Source column are the ones that were automatically determined. If a hazard category shows with “Manual” in the Source column, then either the value was manually entered, or needs to be entered. The hazards ratings in this section are used when generating an SDS in order to populate the classification, pictograms, and phrases for Section 2 of the SDS.

		Source	Lo...	ID	Description	Hazard Class	US/Can...	E.U.	Australia	Japan	Korea
1	⋮	Auto	<input type="checkbox"/>	ACUTD	Acute Toxicity - Dermal	HEALTH					
2	⋮	Auto	<input type="checkbox"/>	ACUTE	Acute Toxicity	HEALTH					
3	⋮	Auto	<input type="checkbox"/>	ACUTI	Acute Toxicity - Inhalation	HEALTH					
4	⋮	Auto	<input type="checkbox"/>	ACUTO	Acute Toxicity - Oral	HEALTH					
5	⋮	Manual	<input type="checkbox"/>	AQUAA	Acute Toxicity-Aquatic	ENVIRONMENT					
6	⋮	Manual	<input type="checkbox"/>	AQUAC	Chronic Toxicity-Aquatic	ENVIRONMENT					
7	⋮	Manual	<input type="checkbox"/>	ASPIR	Aspiration	HEALTH					
8	⋮	Auto	<input type="checkbox"/>	CARC	Carcinogenicity	HEALTH	2			2	
9	⋮	Manual	<input type="checkbox"/>	CMDUS	Combustible Dusts	PHYSICAL					
10	⋮	Manual	<input type="checkbox"/>	CORMT	Corrosive to Metals	PHYSICAL					
11	⋮	Manual	<input type="checkbox"/>	CORRO	Skin Corrosion/Irritation	HEALTH					
12	⋮	Manual	<input type="checkbox"/>	EXPLD	Desensitized explosives	PHYSICAL					
13	⋮	Manual	<input type="checkbox"/>	EXPLO	Explosive	PHYSICAL					
14	⋮	Manual	<input type="checkbox"/>	EYEDM	Serious Eye Damage/Eye Irritat	HEALTH					
15	⋮	Manual	<input type="checkbox"/>	FLAER	Flammable Aerosols	PHYSICAL					
16	⋮	Manual	<input type="checkbox"/>	FLGAS	Flammable Gases	PHYSICAL					
17	⋮	Manual	<input type="checkbox"/>	FLGSU	Chemically unstable gas	PHYSICAL					
18	⋮	Auto	<input type="checkbox"/>	FLLQD	Flammable Liquids	PHYSICAL					
19	⋮	Manual	<input type="checkbox"/>	FLSLD	Flammable Solids	PHYSICAL					
20	⋮	Manual	<input type="checkbox"/>	GSPRS	Gases Under Pressure	PHYSICAL					

The key fields in this section are:

- **Source** – Indicates if the value was automatically determined or manually entered.
- **Lock** – If a value is locked, it cannot be overwritten the Classify Hazards option is executed.
- **ID** – Identifier for the hazard category.
- **Description** – Description of the hazard category.
- **Hazard Class** – Type of hazard.
- **Locales** – The Locales for which the hazard classification has occurred. When the Classify Hazards occurs, bridging principals are used on the CAS data in order to calculate the values for the rows, which are marked with the source of “Auto”.

Classify Hazards

Classify Hazards is a menu option that is found on the right panel menu of the R&D Formula window.

SDS

Classify Hazards

Generate SDS

View SDS

This option performs the following actions:

- Determines the composition of the formula at the CAS level.
- Determines the Dermal and Oral toxicity values.
- Performs the hazard classifications for all Locales.

After this option is run, the hazard classifications and properties should be reviewed. Any hazard categories that show a source of “Manual”, should be verified and manually edited in order to enter the correct value.

After the values have been verified, click the “Certify” checkbox on the Hazards tab. This option will lock down the values on this tab so that they cannot be edited. Certifying the results is required before generating and SDS.

Generate SDS

The Generate SDS is a right-panel menu option on the R&D Formula window, which allows one or more SDS to be generated from the formula. This menu option becomes available once the hazards classifications have been certified on the formula.

SDS

Classify Hazards

Generate SDS

View SDS

All > ProceSSION > Formulation Module

SDS Generate

CRITERIA

Base source Template

Template

Last SDS Revision

LANGUAGES

	Se...	Language	
1	<input type="checkbox"/>	ENG	<input type="button" value="Q"/>
2	<input type="checkbox"/>	FRA	<input type="button" value="Q"/>
3	<input type="checkbox"/>	SPA	<input type="button" value="Q"/>
4	<input type="checkbox"/>		<input type="button" value="Q"/>

LOCALES

5 Results Display: 10

	Se...	Locale	
1	<input type="checkbox"/>	AUSTRALIA	<input type="button" value="Q"/>
2	<input type="checkbox"/>	EU	<input type="button" value="Q"/>
3	<input type="checkbox"/>	JAPAN	<input type="button" value="Q"/>
4	<input type="checkbox"/>	KOREA	<input type="button" value="Q"/>
5	<input type="checkbox"/>	USCANADA	<input type="button" value="Q"/>
6	<input type="checkbox"/>		<input type="button" value="Q"/>

On the SDS Generate window are the following options:

- **Base Source** – This option determines the source for the non-standardized text phrases on the SDS. Non-standardized text phrases are phrases, such as General First-Aid or Advice on Safe Handling, whose verbiage is not specifically dictated by GHS and therefore can be customized in the *Procession* [SDS Phrase Library](#). Note that all of the standardized GHS phrases will be automatically populated based upon the formula classification, regardless of which of these two options are selected.
 - **Template** – Allows the selection of an SDS template. When the SDS is generated, all of the non-standard text phrases will come from the template.
 - **Last SDS Revision** – Uses the last SDS revision for this formula as the source of the non-standard text phrases.
- **Template** – SDS Template to use for non-standardized phrases. This option is only available if the Base Source value is “Template”.
- **Languages** – Safety Data Sheets will generate in the selected languages. The list of languages is based upon the languages for which there are phrases setup in the *Procession* SDS Phrase Library.
- **Locales** – Safety Data Sheets will be generated for each of the selected Locales. Each Locale may have differences in their formula hazard classifications and the format of the SDS may vary by Locale based upon the settings in the [SDS SECTION HEADERS](#).

After the options are selected, the OK button is pressed in order to create the Safety Data Sheets. After the Safety Data Sheets have been generated, a log file will display the SDS numbers that were assigned.

View SDS

The View SDS feature is a right-panel menu option on the R&D Formula window. This option will display the Safety Data Sheet window showing all Safety Data Sheets which were generated from the formula or which are linked to the formula.



Safety Data Sheets Overview

Procession provides tools necessary for companies to create safety data sheets and GHS compliant labels. These tools include the ability to create safety data sheets in multiple languages and in the format of multiple locales.

Note that it is the sole responsibility of the regulatory users of Procession to verify all data on the SDS before distributing a SDS report. Provenio Technology is not responsible for data that the user enters, selects or generates on the SDS which is non-compliant.

All companies that manufacture or distribute chemicals are required to provide readily available Safety Data Sheets (SDS) to material handlers, business partners and emergency responders. The SDS provides safety and handling information as well as regulatory compliance data.

Setup

Procession provides many powerful tools that can be used for creating an SDS. However, before using these tools to create an SDS, the tools must be configured for each company's individual needs. The following sections provide information on how to setup and configure these tools.

SDS Language Translation Setup

Procession has a built-in multilingual toolset and provides standardized phrases and section headers in English, French, and Spanish. If an additional language is required, add translations for this language to the SDS Section Headers, Phrase Library and GHS Phrases. Once the translations have been added, Safety Data Sheets can be generated in that language.

SDS Section Headers

The SDS Section Headers feature allows the definition of label text for fields and sections on the SDS report. SDS Section Headers can be accessed by navigating to **Procession**→**Regulatory Control Module**→**Maintenance/Setup**→**SDS Section Headers**.

Example of Section headers from the SDS Report

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

The section header text and field label text are defined in a grid on the SDS Section Headers window. This text can be edited and new languages or locales can be added. These changes allow the format of the report to change by locale and language without requiring report modifications.

All > Procession > Regulatory Control Module > Maintenance/Setup

Procession-SDS Section Headers

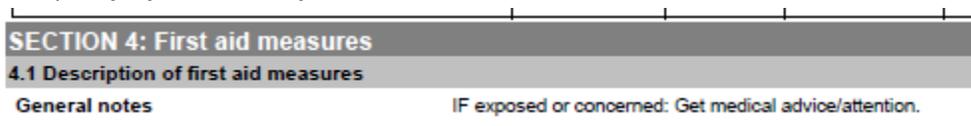
868 Results Display: 10 1 2 3 4 5 6 ... 87

	Header ID	Show Header On SDS?	Section Text	SDS Locale	Section	Sub-Section	Sub-Section Letter	Language
1	S01000	Yes	SECTION 1: Identification of the substance/mixture	EU	1	0		ENG
2	S01000	Yes	SECTION 1: Identification of the substance/mixture	USCANADA	1	0		ENG
3	S01000	Yes	SECTION 1. Identification de la substance/du mélange	EU	1	0		FRA
4	S01000	Yes	SECTION 1. Identification de la substance/du mélange	USCANADA	1	0		FRA
5	S01000	Yes	SECCIÓN 1: Identificación de la sustancia o la mezcla	EU	1	0		SPA
6	S01000	Yes	SECCIÓN 1: Identificación de la sustancia o la mezcla	USCANADA	1	0		SPA
7	S01010	Yes	1.1 Product Identifier	EU	1	1		ENG
8	S01010	Yes	1.1 Product Identifier	USCANADA	1	1		ENG
9	S01010	Yes	1.1 Identificateur de produit	EU	1	1		FRA
10	S01010	Yes	1.1 Identificateur de produit	USCANADA	1	1		FRA

The fields on this window are:

- **Header ID** – Identification field. The combination of Header ID, SDS Locale and language must be unique.
- **Show Header on SDS?** - If set to Yes, then the section text or field text will print on the SDS report.
- **Section Text** – Translated Text. This text will print on the SDS report.
- **SDS Locale** – Defines which report format that the text will be used for. Select from one of the locales.
- **Section** – Section of the report that the text will appear in. The options are section 1 through 16.
- **Sub-Section** – The subsection of the report.
- **Sub-Section Letter** – Field letter within the sub-section. If a sub-section letter is specified, then the Section text is for a field label.

Example of a field label defined with a Sub-Section Letter



Procession-SDS Section Headers

868 Results Display: 10 1 ... 13 14 15 16 17 ... 87

	Header ID	Show Header On SDS?	Section Text	SDS Locale	Section	Sub-Section	Sub-Section Letter	Language
121	S0401A	Yes	General notes	EU	4	1	A	ENG
122	S0401A	Yes	General notes	USCANADA	4	1	A	ENG
123	S0401A	Yes	Conseils généraux	EU	4	1	A	FRA

The sub-section letter is determined by the field name. The field name is determined by the order in which the field appears in the subsection. The first field in a subsection is given the letter “A” and the second field is given “B”, etc.

- **Language** – Identifies the language for the text.

SDS Phrase Library

Non-GHS standard SDS phrases are defined in the SDS phrase library. Phrases in this library can be selected on an SDS or Template. These phrases can also be automatically added to an SDS based upon conditions defined for the phrase, when the SDS is generated from a formula.

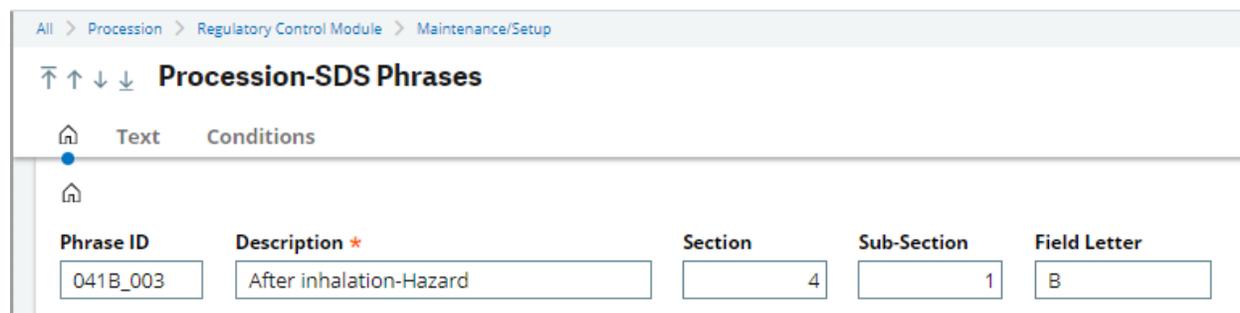
The phrase library manages the language translations for these phrases. Example phrases are provided with **Procession** in English, Spanish, and French. However, it is recommended that each company review these phrases and add their own if required.

The SDS Phrase Library can be accessed from the menu path **Procession→Regulatory Control→Maintenance/Setup→SDS Phrases**.

Header Tab

On the header tab, the key information for the phrase is defined.

New phrases can be added to this library by clicking the “New” button and assigning a phrase ID. Each phrase can be setup to be either field or section specific or available anywhere on the SDS. If a phrase is specific to a section or field, then section, sub-section and/or field letter should be specified. If the sections or fields are not specified, then the phrase is not bound and can be used anywhere on the SDS.



Phrase ID	Description *	Section	Sub-Section	Field Letter
041B_003	After inhalation-Hazard	4	1	B

The fields in this section are:

- **Phrase Id** – Unique ID for the phrase. It is recommended to number the phrase based upon the section, sub-section and field. In the example, 041C_001 is a phrase for section “04”, subsection “1” and field “C”.

To determine the section, subsection and field, edit an SDS record. Click on the textbox and press the keys Esc+F6. This will show the field name with the format: “T” + 2 character section # + 2 character sub-section # + Field Letter + “TEXTE”. An example is “T0401CTEXTE” as shown below.



- **Section** – Field section for this phrase (1-16). A value of 0 indicates that the phrase should be available in all sections.
- **Sub-section** – This value would depend upon the number of sub-sections in each section. A value of 0 indicates that the phrase is available in all subsections.
- **Field Letter** – Field letter as described above in the Phrase ID definition. A blank value indicates that the phrase is available to all fields in the subsection.

Text Tab

This tab defines the phrases that will be used for each language.

Text

Languages

	Language...
1	ENG
2	FRA
3	SPA
4	

Text

Selected Language

ENG

English - American

Text

If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

The fields on this tab are:

- **Languages** – Enter or select each of the languages for which an SDS will be generated.
- **Selected Language** – Indicates which language is currently selected in the languages grid.
- **Text** – Defines the phrase that will be used for this language which this SDS Phrase ID is used on an SDS.

Select the language from the languages grid before entering phrases. The selected language will show in the “Selected Language” text box. Repeat this for each language and then save the phrase.

Conditions Tab (new in Neon)

On this tab, conditions are defined for when this phrase will be automatically added to an SDS. Phrases are automatically added to an SDS when the SDS is generated from the Formula window using the [GENERATE SDS](#) option and the “Utilize Conditional Phrases” option is selected.

All > Procession > Formulation Module

SDS Generate ?

Criteria

Base source

Template

Last SDS Revision

Template

Utilize Conditional Phrases

The types of conditions that can be defined for a phrase are:

- Formula Hazard Classifications
- GHS Classifications
- Hazard Phrases
- Precautionary Phrases
- Property Values
- Locales

Conditions

Formula Hazard Classification

⋮ 🔍 ☰ ↶ ↷

		Descripti...	Operator	Value	And / or
1	⋮	🔍		▼	▼

GHS Classification

⋮ 🔍 9 Results Display: 50 ☰ ↶ ↷

	ID	Description	Value	And / or
1	⋮ COMP 🔍	Compressed Gas	<input checked="" type="checkbox"/>	Or ▼
2	⋮ CORR 🔍	Corrosive	<input checked="" type="checkbox"/>	Or ▼
3	⋮ ENVIR 🔍	Environmental Damage	<input checked="" type="checkbox"/>	Or ▼
4	⋮ EXPL 🔍	Explosive	<input checked="" type="checkbox"/>	Or ▼
5	⋮ FLAM 🔍	Flammable	<input checked="" type="checkbox"/>	Or ▼
6	⋮ HEALT 🔍	Health Hazard	<input checked="" type="checkbox"/>	Or ▼
7	⋮ IRRI 🔍	Irritant	<input checked="" type="checkbox"/>	Or ▼
8	⋮ OXID 🔍	Oxidizing	<input checked="" type="checkbox"/>	Or ▼
9	⋮ TOXI 🔍	Toxic	<input checked="" type="checkbox"/>	Or ▼
10	⋮ 🔍		<input type="checkbox"/>	▼

Hazard Phrases

⋮ 🔍 ☰ ↶ ↷

	ID	Exists	And / or
1	⋮	🔍 <input type="checkbox"/>	▼

Hazard Phrases

ID	Exists	And / or
1	<input type="checkbox"/>	

Precautionary Phrases

ID	Exists	And / or
1	<input type="checkbox"/>	

Properties

ID	Descripti...	Operator	Value	Value Field	Quantity 1	Quantity 2	And / or
1			<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

Locales

ID
1

For each condition, a default value can be defined. If there are multiple conditions, then the And/Or column defines whether all conditions are required, or if the condition is true if any one of the conditions are true.

Below is an example where both “And” and “Or” conditions exist.

GHS Classification

9 Results Display: 50

ID	Description	Value	And / or
1	COMP Compressed Gas	<input checked="" type="checkbox"/>	And
2	CORR Corrosive	<input checked="" type="checkbox"/>	And
3	ENVIR Environmental Damage	<input checked="" type="checkbox"/>	Or
4	EXPL Explosive	<input checked="" type="checkbox"/>	Or

In this example, the condition is true if: a) Compressed Gas, Corrosive and Environmental Damage are selected OR b) Explosive is selected.

GHS Phrases

One other set of phrases for which translations must be defined are the GHS Hazard Phrases and Precautionary Phrases. These are standardized GHS phrases provided by the United Nations or regulatory bodies such as the ECHA. **Procession** provides translations for English, Spanish, and French, but additional languages can be added. See [GHS Hazard Phrases](#) and [GHS Precautionary Phrases](#) for more information on setting up these phrases.

All > Procession > Regulatory Control Module > SDS Phrase Setup

Procession-GHS Hazard Phrases

338 Results Display: 20

	Code	Compa...	Phrase	Language	H...
1	EUH001	No	Explosive when dry.	ENG	Pr
2	EUH001	No	Explosif à l'état sec.	FRA	Pr
3	EUH001	No	Explosivo en estado seco.	SPA	He

All > Procession > Regulatory Control Module > SDS Phrase Setup

Procession-Precautionary

421 Results Display: 20

	Code	Co...	Phrase	Language	Statement Type
1	P101	No	If medical advice is needed, have product container	ENG	General
2	P101	No	En cas de consultation d'un médecin, garder à disp	FRA	General
3	P101	No	Si se necesita consejo médico, tener a mano el env	SPA	General

SDS Templates

Templates are used to predefine the non-standardized phrases, supplier, emergency response, etc. and templates can be used in generating an SDS from a formula.

All > Procession > Regulatory Control Module

Procession-Safety Data Sheet

HOME

Template

SDS ID	Template	Status		
TSDS0001		In development		
Product	Revision Number	Revision date	Language *	Locale
	1	01/16/19	ENG	

A template is created from the Safety Data Sheet feature, which can be access from the menu path **Procession→Regulatory Control→Safety Data Sheet**.

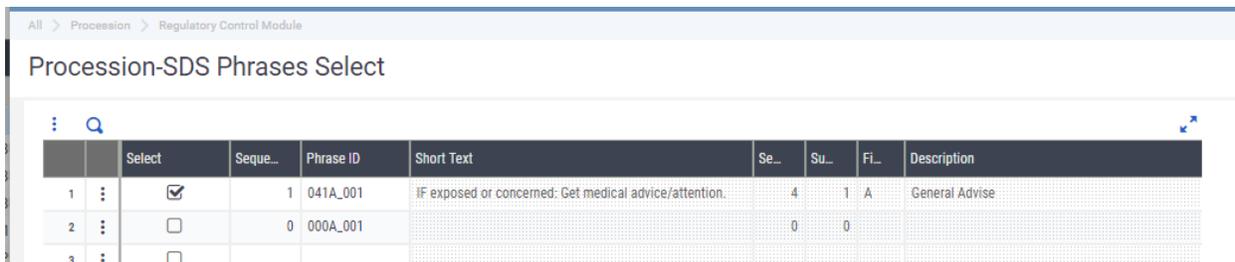
A template is created by clicking the “New” button and checking the Template checkbox. The SDS ID number for a template will be automatically generated when the “Create” button is clicked. Templates are assigned a different SDS ID range than an SDS. By default, templates are assigned ranges starting with TSDS0001.

When the Template checkbox is selected, many of the fields on the template record will be disabled, such as the fields on Section 2. The reason that these fields are disabled is because those fields are automatically populated when the SDS is generated and therefore data entered in those sections on the template are overwritten on the new SDS.

The primary purpose of a template is to setup the non-GHS standard phrases. These phrases can be added to a text box on the template by clicking the action menu on the right of the text box.



Clicking the “Procession SDS Phrases Select” menu option will display the SDS Phrases Select window. This windows displays all phrases from the SDS Phrases Library that were either specific to the field or section, or phrases that were setup to be available anywhere on the SDS. Select the phrase ID from this window.



When a phrase is selected in this manner, the phrase ID is stored with the field. This template can then be used to generate SDS in any languages. When the SDS is generated in a language, the phrase ID is used to determine the text for that phrase in the specified language.

Text can also be entered directly into the text boxes on the template. However, if text is manually entered on the template, that template loses its ability to generate SDS in other languages.

Methods for Creating a Safety Data Sheet

There are three methods for creating a Safety Data Sheet in **Procession**. These methods are:

- Generating an SDS from a Formula
- Importing an SDS
- Manually creating an SDS

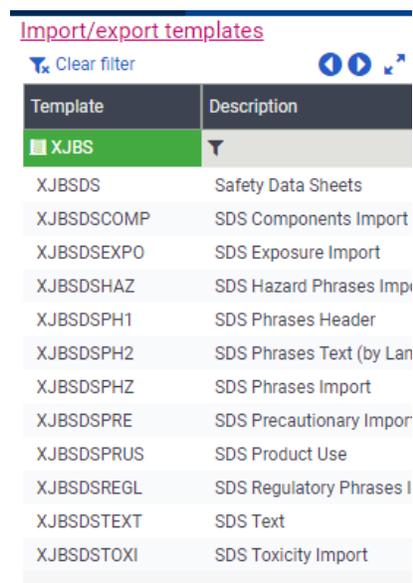
Each of these methods are described in the sections that follow.

Generating a Safety Data Sheet from a Formula

The recommended method for creating an SDS is to generate the SDS from the Formula (See [Generate SDS](#) for details). This method requires the **Procession** Pre-sales/R&D Formula module.

Importing an SDS

An SDS can also be created in **Procession** using import templates. **Procession** provides the templates listed below.



Template	Description
XJBS	
XJBSDS	Safety Data Sheets
XJBSDSCOMP	SDS Components Import
XJBSDSEXPO	SDS Exposure Import
XJBSDSHAZ	SDS Hazard Phrases Impo
XJBSDSPH1	SDS Phrases Header
XJBSDSPH2	SDS Phrases Text (by Lan
XJBSDSPHZ	SDS Phrases Import
XJBSDSPRE	SDS Precautionary Impor
XJBSDSPRUS	SDS Product Use
XJBSDSREGL	SDS Regulatory Phrases I
XJBSDSTEXT	SDS Text
XJBSDSTOXI	SDS Toxicity Import

For more information regarding importing using **Procession** templates, refer to the **Procession** Setup & Technical Guide.

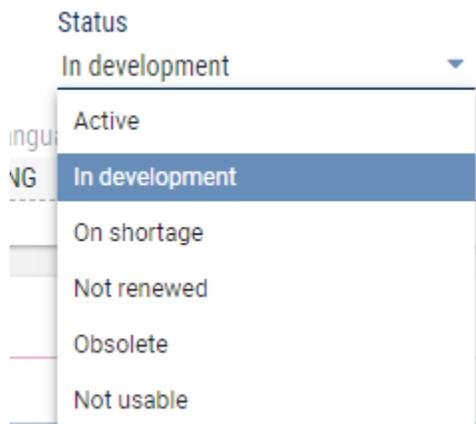
Manually Creating Safety Data Sheets

The following sections describe how to manually create or maintain a safety data sheet in **Procession**.

Creating an SDS for a Product

The first step in manually creating an SDS is to click the “New” button the Safety Data Sheet window. The fields on the SDS header are:

- **SDS ID** – SDS Identifier. This number is automatically assigned when the SDS is created. It can also be manually assigned by entering a unique value into this field.
- **Status** – Indicates the status of the SDS. This field shares the same options as are found on the product status field on a product record.



Typical statuses used for an SDS are:

- **Active** – Current revision of the SDS and this revision have been certified and are ready for distribution.
 - **In Development** – SDS has not been certified. Therefore, the SDS is not ready for distribution.
 - **Non usable** – A problem was found with the SDS and the SDS is on hold until the problem is corrected.
 - **Obsolete** – Older revision of the SDS which is maintained in order to have a history of the SDS for this product. This SDS should not be distributed.
- **Template** – Checkbox that indicates if this record will be a template instead of an SDS.
 - **Product** – Product Id.
 - **Revision Number** – SDS Revision number. This field is automatically populated when new SDS is created for a product.
 - **Revision Date** – Date of the revision.
 - **Language** – Dictates what language to use for the phrases on the SDS.
 - **Locale (Optional)** – Dictates if this SDS is specific to a locale. Leave blank if the SDS can be printed for more than one locale.

When a product is entered for a new SDS, the following data will populate from the product record, if the data exists on the product.

1. **Section 3 Composition**—Formula components and their CAS data are automatically populated into this section. The system determines whether to add a component's CAS data based upon the following criteria:

- a. The CAS number must be marked as “Show on SDS” in the CAS Master record.
- b. In the formula, the CAS chemical’s total weight percentage must be greater than “If weight % greater than” value specified on the CAS Master record.

Based upon the CAS numbers added in section 3, the following data is automatically populated.

2. **Section 8 Exposure Controls** – The exposure table is populated from the component’s product record. On the product record, exposures are specified by CAS number. A component’s exposures will be automatically populated onto the SDS, if the exposure’s CAS number is listed in section 3 of the SDS or if the component’s exposure does not have a CAS number assigned.
3. **Section 11 Toxicological** – The toxicity table is populated from the CAS record.
4. **Section 12 Eco-Toxicity** – The eco-toxicity table is populated from the CAS record.
5. **Section 15 Regulation Report** – Regulations are populated from the component’s product record. On the product record, regulations are specified by CAS number. A component’s regulations are automatically populated onto the SDS if the associated CAS number is defined in section 3 or the regulation does not have a CAS number assigned.

Additional SDS data populated from the product record are:

6. **Section 9 – Physical Properties**
7. **Section 14 – Transport** – U.N. number
8. **Section 16 – Other Information** – HMIS/NFPA data.

Copying an SDS

To copy an SDS from another product or to create a revision:

1. Select the SDS that will be copied from.
2. Clear the SDS ID. This step begins the copy.
3. Enter the product id
4. Press the create button to save the new SDS.

Translating an SDS

The steps for translating an SDS to another language are identical to the steps for copying an SDS, with one exception. When copying the SDS, change the current language to the target language. When the value in the language field changes, the phrase translations are initiated.

Saving an SDS

When an SDS record is saved, typically the properties, exposures, regulations, and proper shipping name is saved back to the product record. Therefore, if a product has an SDS, it is recommended to maintain this data on the SDS instead of on the product record.

The behavior for whether SDS data is saved backed to a product is controlled by a system parameter. Refer to [Appendix 3 – Parameter Setup](#) for more information on how to change this parameter.

Advantages of Selecting SDS Phrases versus Entering Text

Most of the textboxes on the SDS have the option of either entering text or selecting a phrase from the [SDS Phrase Library](#). The recommendation is to select the phrases, as selected phrases will be automatically translated when the SDS is copied to another language. Manually entered text is not automatically translated, even if the entered text is exactly the same as an existing SDS phrase.

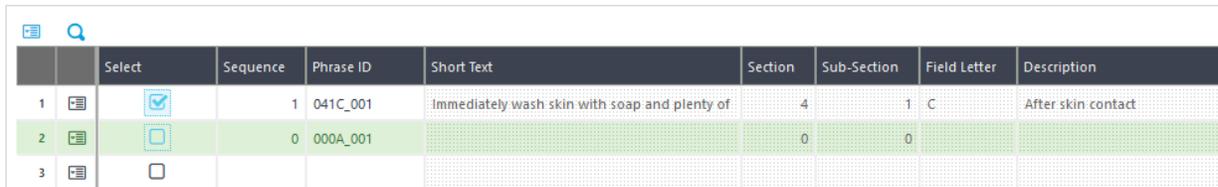
To select phrases for a textbox on the SDS, first click on the action menu on the right side of the field. Select the “Procession-SDS Phrase Select” option.



This option displays a list of the SDS phrases that are available for that section, subsection, and field. Select one or more phrases and then click on “Ok” to save the change.

All > Procession > Regulatory Control Module

Procession-SDS Phrases Select

A screenshot of a dialog box titled 'Procession-SDS Phrases Select'. It contains a table with columns for 'Select', 'Sequence', 'Phrase ID', 'Short Text', 'Section', 'Sub-Section', 'Field Letter', and 'Description'. The table has three rows. The first row is selected and has a checkmark in the 'Select' column. The second row is also selected and has a checkmark in the 'Select' column. The third row is not selected and has an empty checkbox in the 'Select' column.

	Select	Sequence	Phrase ID	Short Text	Section	Sub-Section	Field Letter	Description
1	<input checked="" type="checkbox"/>	1	041C_001	Immediately wash skin with soap and plenty of	4	1	C	After skin contact
2	<input checked="" type="checkbox"/>	0	000A_001		0	0		
3	<input type="checkbox"/>							

Hiding Text Fields

Most of the text boxes on the SDS have the ability to hide. When a text box is hidden, it does not print on the SDS.



To hide a text box, click on the menu on the right side of the text box and select hide.

Text fields on a tab can be un-hidden by clicking on the Unhide All option at the bottom of the tab.

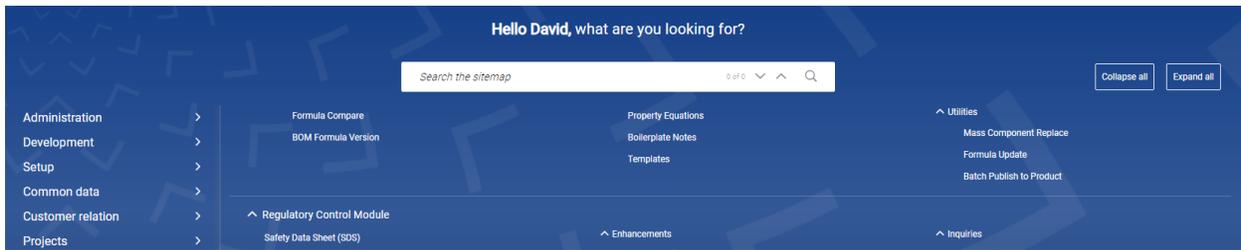
Safety Data Sheet

The SDS entry window can be accessed from

- **Procession** menu
- Product window
- R&D Formula window

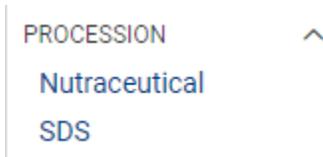
Accessing from Menu

The SDS can be accessed by navigating to **Procession** → **Regulatory Control Modules** → **Safety Data Sheet (SDS)**.



Accessing from Product window

The SDS can be accessed from the standard Sage X3 product window by selecting SDS from the right panel menu as shown below. Selecting this option from the product window will display all revisions of the SDS for this product.



Accessing from the Formula Window

The SDS can be access from the **Procession** R&D Formula window by selecting View SDS from the right panel menu. Selecting this option will display all of the revisions of the SDS for this formula ID.



SDS Header

The fields in the SDS Header are described above. Refer to [Creating an SDS for a Product](#).

Section 1 - Identification

This section includes general product information along with emergency response phone numbers and addresses.

1. IDENTIFICATION

1.1 PRODUCT IDENTIFIERS

Product name	CAS number	Registration number	Additional ID number
Natural Raspberry Flavored	N/A	N/A	FF708371

Synonyms

1.2 IDENTIFIED USES

Product use description

Updated on	Updated by	<input type="checkbox"/> Certified	Certification Date	Certified by	Formula ID	Template Used
01/17/18	DJP					

1.3 SUPPLIER DETAILS

Default supplier/shipper	Email	Shipper direct phone
→ PROVENIO	David.Padgett@ProvenioTechnology.com	

ADDITIONAL TEXT

Key fields in this section are:

- **Certified** – After an SDS has been reviewed, this field should be checked to indicate that the SDS is certified. When this field is checked the following actions occur:
 - The SDS status automatically changes to “Active”
 - The SDS fields become un-editable in order to prevent additional changes after the certification.
- **Certification Date** – The date of the certification
- **Certified by** – User ID for the person who certified the SDS.
- **Formula ID** – If the SDS was generated from a formula, this field shows the formula id.
- **Template Used** – If the SDS was generated from a formula, this field shows the template or the last SDS revision that was used to populate the non-standard phrases.

- **Default supplier/shipper** - This field determines the address and logo that will show on the SDS. This can be setup by drilling down from this field to the **Procession** Shipper/Emergency Contact feature. This feature allows a BP partner address and a log to be assigned.

Section 2 – Hazard Identification

GHS pictograms, signal words, hazard statements, and precautionary statements are selected on this section.

All > Procession > Regulatory Control Module Default

Procession-Safety Data Sheet

2. HAZAR... ▾

2. Hazards Id

2.1 Classification

Carc. 2: STOT RE 1; STOT SE 3

2.2 Label Elements

Explosive Flammable Oxidizing Compressed Gas Corrosive Toxic Health Hazard

Env Damaging Irritant

Signal Word

Danger ▾

Hazard Statements

	GHS Code	H...	Text	Seque...
1	H335	Q	Heal May cause respiratory irritation	0
2	H336	Q	Heal May cause drowsiness or dizziness	0
3	H351	Q	Heal Suspected of causing cancer	0
4	H372	Q	Heal Causes damage to organs through pr	0
5		Q		

Precautionary Statements

15 Results Display: 5 ▾ 1 2 3 4

	GHS Code	Statement Type	Text	Seque...
1	P201	Q	Response Obtain special instructions before use.	0
2	P202	Q	Prevention Do not handle until all safety precautions have been r	0

2.3 Other Hazards

2.4 Unknown Acute Toxicity(US)

Additional Text

Hazard and Precautionary Phrase Selection

> Procession > Regulatory Control Module

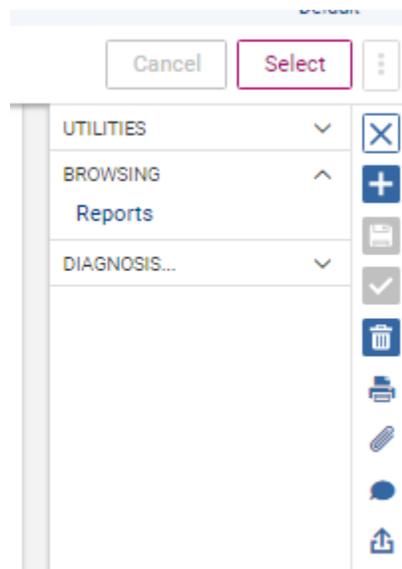
↑ ↓ ↕ Procession-H-phrases Selection

114 Results Display: 25 1 2 3 4 5

	S...	GHS Hazard Code	Compa...	Text	Language	Hazard Type
1	<input checked="" type="checkbox"/>	H302	No	Harmful if swallowed	ENG	Health Hazards
2	<input checked="" type="checkbox"/>	H313	No	May be harmful in contact with skin	ENG	Health Hazards
3	<input checked="" type="checkbox"/>	H316	No	Causes mild skin irritation	ENG	Health Hazards
4	<input checked="" type="checkbox"/>	H320	No	Causes eye irritation	ENG	Health Hazards
5	<input type="checkbox"/>	EUH001	No	Explosive when dry.	ENG	Physical Hazards
6	<input type="checkbox"/>	EUH006	No	Explosive with or without contact with air.	ENG	Physical Hazards
7	<input type="checkbox"/>	EUH014	No	Reacts violently with water.	ENG	Physical Hazards
8	<input type="checkbox"/>	EUH018	No	In use may form flammable/explosive vapour-air m	ENG	Physical Hazards
9	<input type="checkbox"/>	EUH019	No	May form explosive peroxides.	ENG	Physical Hazards

A multi-selection tool is provided for selecting hazard or precautionary phrases. This tool allows multiple phrases to be selected at one time. The multi-select tool is accessed when a selection is made in the GHS code field for either phrase type.

After tagging the phrases, press the **Select** button to record the changes back to the SDS. Press the **Close** button to return to the SDS record.



Section 3 – Composition

The composition section displays the chemical composition for the product. This information will populate from the formula, if the SDS was generated from a formula. If manually creating an SDS, the CAS records and percentages can be entered in the composition grid.

3. COMPOSITION

SUBSTANCE OR MIXTURE

Substance

3.1/3.2 COMPOSITION

	CAS-No	Chemical Name	Ingredient	Lower Op...	Lower %	Upper Op...	Upper %	ED No
1	13463-67-7	Titanium dioxide	RM505	=	21.94	=		238-6
2								

ADDITIONAL TEXT

When a CAS Number is added to an SDS, the SDS is automatically populated with data from the CAS Maintenance record. The CAS data populates into the sections 3, 8, 11, 12, and 15 of the SDS.

Key fields in this section are:

- **Substance** – Select this field if the product is a substance. Do not select this field if the product is a mixture.
- **Lower Operator** – Operator for specifying how to show the composition percentage on the SDS. For example, if the percentage should show as “<=1%” on the SDS, then the lower operator would be set to “<=” and the lower % would be set to 1.
- **Lower % or Exact** - Lower composition percentage range for the component if the product has a range. However, if the exact value is known, that value can be entered here and the Upper % can be left blank.
- **Upper Operator** – Similar to the lower operator. This operator is used to specify the upper limit. For example, if the SDS should show “>=99%”, the upper operator would be set to “>=” and the upper % would be set to 99.
- **Upper %** - Upper composition percentage for the component.

If a composition should show as a range (ex. “10-20 %”), the upper and lower operators would be left blank and the lower% and upper % values would be populated.

Section 4 – First Aid Measures

This section documents the first-aid measures and medical attention required, depending on the type and manner of exposure.

4. FIRST-AID

4.1 DESCRIPTION OF MEASURES

First-aid measures general

If exposed or concerned: Get medical advice/attention.

After inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

After skin contact

Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

After eye contact

Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or systems of overexposure persists.

After ingestion

If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

4.2 MOST IMPORTANT SYMPTOMS

4.3 IMMEDIATE ATTENTION

ADDITIONAL TEXT

 Unhide All

Section 5 – Firefighting Measures

This section documents the methods of fighting and extinguishing a fire as a result of the product's combustion. Other important fire safety information is included in this section, such as special protective gear required, flash points, or first-aid measures in cases of smoke exposure or chemical burns.

5. FIREFIGHTING

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable extinguishing media

5.2 SPECIAL HAZARDS

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes. May cause sensitization by skin contact.

5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

ADDITIONAL TEXT

 Unhide All

Section 6 – Accidental Release

This section documents the preferred method of handling a spill, leak, or other accidental release of the product. Technical staff can include containment advice, emergency procedures, and cleanup procedures.

6. ACCIDENTAL RELEASE
6.1 PRECAUTIONS, EQUIP, PROCED.
Personal precautions, protective equip., procedures FOR EMERGENCY RESPONDERS: Use personal protection recommended in Section 8.
6.2 ENVIRONMENTAL PRECAUTIONS
Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
6.3 CONTAINMENT/CLEANUP
Methods and materials for containment and cleanup METHODS FOR CONTAINMENT: Prevent further leakage or spillage if safe to do so. METHODS FOR CLEANING UP : Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Take up mechanically, placing in appropriate containers for disposal.
6.4 REFERENCE TO OTHER SECTION
ADDITIONAL TEXT
Unhide All

Section 7 – Handling and Storage

This section documents the best methods of handling and storing this product. Technical staff should list other chemicals with which this product should not be stored and any extreme conditions to be avoided.

7. HANDLING AND STORE v

7.1 ADVICE ON SAFE HANDLING

General Hygiene Considerations : When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

7.2 SAFE STORAGE

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

7.3 END USE(S)/INCOMPAT.

Incompatibilities (US/Canada)
Strong oxidizing agents.

Specific end use(s) (EU)

ADDITIONAL TEXT

 Unhide All

Section 8 – Exposure Control

This section documents the type of chemical exposures of which users or business partners should be aware. This section is automatically populated when data is added to the composition section of the SDS.

Exposures can also be added directly to this section by selecting a CAS number in the exposure CAS # field. When CAS # is selected, all exposures defined for that CAS number are automatically added to the SDS.

8. EXPOSURE CONTROLS

8.1 CONTROL PARAMETERS

8 Results Display: 5

	CAS-No	CAS Description	Exposure Type	Exposure Value	Exposure Form	Exposure Notes	List ID
1	13463-67-7	Titanium dioxide	OSHA PEL	15 mg/m3			0
2	13463-67-7	Titanium dioxide	ACGIH TLV	10 mg/m3			0
3	13463-67-7	Titanium dioxide	QUEBEC	10 mg/m3			0
4	13463-67-7	Titanium dioxide	ONTARIO	10 mg/m3			0
5	13463-67-7	Titanium dioxide	BRITISH COLUMBIA	10 mg/m3			0

8.2 ENGINEERING CONTROLS

Engineering controls

Environmental exposure controls

8.3 PROTECTIVE MEASURES

Eye/Face protection

Hand protection

[Redacted text area]

Skin protection

[Redacted text area]

Other protection

[Redacted text area]

Respiratory protection

[Redacted text area]

General hygiene consideration

[Redacted text area]

[Redacted text area]

ADDITIONAL TEXT

[Redacted text area]

Section 9 – Physical Properties

The data in this section defines the physical and chemical properties of the product. Example property groups are included in **Procession** these property types are set up in [LOCAL MENU 4852 – PROPERTY TYPES](#). The list of properties can be edited and additional properties added. Refer to [Miscellaneous Table 4848](#) for more information.

9. PHYS. PROPERTIES

TYPE OF PROPERTIES

Chemical

9.1 PROPERTIES

ID	Property Name	Property Value	Sort Order	Qty.	UOM	Qty.	UOM
1	EXMNS	Extinguishing Media(NonSuit.)					
2	MULTPT	Melting Points					
3	APP	Apperances	Liquid	APP			
4	AUTOI	Autoignition Temp	160 °C	AUTOI	160 °C		
5	BIOFC	Bioconcentration Factors (BCFs)		BIOFC			
6	BOIL	Boiling Points	110 - 115 °C	BOIL	110 °C	115 °C	
7	BUDEN	Bulk Densities		BUDEN			
8	COEODC	Coefficient of Octanol		COEODC			
9	COLOR	Color	White	COLOR			
10	DENS	Densities	11.81897145	DENS	11.81897145		
11	EVAP	Evaporation Rate		EVAP			
12	EXMFI	Extinguishing Media for Fires		EXMFI			
13	FSHPT	Flash Points	130 °C	Flash	130 °C		
14	HETCO	Heats of Combustion		HETCO			
15	HETFO	Heats of Formation		HETFO			
16	HENRY	Henry's Law Constant		Henry			
17	MOLEC	Molecular Weights		MOLEC			
18	NOTA	InChi Notations		NOTA			
19	ODDET	Odor Threshold Values (Detecti		ODDET			
20	ODOR	Odors		ODOR			

9.2 OTHER INFORMATION

Section 10 – Reactivity

This section defines the chemical reactivity hazards and the overall stability of the product. Information on conditions that should be avoided, along with any reaction hazards users should understand are listed below in the appropriate fields.

10. REACTIVITY
STABILITY AND REACTIVITY
10.1 Reactivity
10.2 Chemical stability Stable under normal conditions.
10.3 Hazardous reactions None under normal processing.
10.4 Conditions to avoid Heat, flames and sparks.
10.5 Incompatible substances Strong oxidizing agents.
10.6 Decomposition hazard Carbon monoxide. Carbon dioxide (CO ₂). Chlorine gas.
ADDITIONAL TEXT
Unhide All

Section 11 – Toxicological

This section defines the effects and symptoms of exposure to this product.

11. TOXICOLOGICAL

LIKELY ROUTES OF EXPOSURE

Skin contact

Eye contact

Inhalation

Ingestion

SYMPTOMS

Symptoms related to characteristics

DELAYED AND CHRONIC EFFECTS

Acute effects

Chronic effects

NUMERICAL MEASURES OF TOXICITY

	CAS-No	CAS Description	Route of exposure	Test Type	Effective Dose	Exposure TL	Species	Not
1	13463-67-7	Titanium dioxide	ORAL	LD50	> 10000 mg/kg		RAT	
2								

OTHER TOXICOLOGY INFORMATION

Carcinogenicity

Germ cell mutagenicity

Reproductive toxicity

Specific target organ toxicity-Single Exposure

[Redacted content]

Specific target organ toxicity-Repeated Exposure

[Redacted content]

Aspiration hazard

[Redacted content]

ADDITIONAL TEXT

[Redacted content]

 Unhide All

Skin corrosion/irritation

[Redacted content]

Serious eye damage/irritation

[Redacted content]

Respiratory sensitization

[Redacted content]

Skin sensitization

[Redacted content]

Section 12 – Ecological Information

This section defines the potential environmental harm in case of accidental release. This includes how the chemical can move through the ecosystem by release and any negative effects on ozone layers, future environmental potential, or global warming.

12. ECO/13.DISPOSAL

12.1 ECOTOXICITY

	CAS-No	CAS Description	Type	Dose	Exposure TL	Species	Class of Species	Note
1								

12.2 Persistence/degradability

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

ADDITIONAL TEXT

Section 13 – Disposal Considerations

This section defines the recommendations for proper and safe methods of disposal. List any disposal conditions to be avoided here. This information may be used in conjunction with information found in [SECTION 8 – EXPOSURE CONTROL](#).

13 DISPOSAL CONSIDERATIONS

Handling for disposal

Methods of disposal

Contaminated packaging

ADDITIONAL TEXT

 Unhide All

Section 14 – Transport

14. TRANSPORT

DOT PROPER SHIPPING NAME

Land Air Sea

LAND

14.1 UN number 14.3 Class 14.4 Packing group

→ UN1263-A  
Paint including paint, lacquer

14.2 Proper shipping name

UN1263,Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base,3,PGIII

AIR

14.1 UN number 14.3 Class 14.4 Packing group

→ UN1263-A  
Paint including paint, lacquer

14.2 Proper shipping name

UN1263,Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base,3,PGIII

SEA

14.1 UN number 14.3 Class 14.4 Packing group

→ UN1263-A  
Paint including paint, lacquer

14.2 Proper shipping name

UN1263,Paint including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler, and liquid lacquer base,3,PGIII

14.5 ENVIRONMENTAL HAZARDS

Marine pollutant

No

Other hazards

[Redacted text area]

14.6 Special precautions for user

[Redacted text area]

14.7 Transport in bulk

[Redacted text area]

ADDITIONAL TEXT

[Redacted text area]

 Unhide All

In this section, select the methods of delivery and the UN shipping number for each method. This UN number defines the hazard classes and packaging groups for the product.

Section 15 – Regulation Reporting

Regulations for the product are defined in this section. The regulations are automatically populated from the composition records in section 3. However, additional regulations can be added manually into this section.

15. REGULATION REPORT

15.1 REGULATORY INFORMATION

6 Results Display: 15

	CAS-No	CAS Description	Regulatory Code	Regulation Title	Reporting Required/On List	Notes
1			AICS	Australian Inventory of Chemical Substances (AICS)	Unspecified	
2			DSL	Canadian Domestic Substance List	Unspecified	
3			ELINCS	European List of Notified Chemicals (ELINCS)	Unspecified	
4			NDSL	Non-Domestic Substances List (NDSL)	Unspecified	
5	13469-67-7	Titanium dioxide	RCH39	Community Rolling Action Plan (CoRAP) List of Sub	No	
6			TSCA	TSCA (Toxic Substances Control Act) Inventory List	No	
7						

15.2 CHEMICAL SAFETY

ADDITIONAL TEXT

Unhide All

Section 16 – Other Information

This section is used to record any additional information, which is not required by the GHS standard.

Procession includes HMIS/NFPA ratings in this section of the SDS.

A disclaimer for the SDS can be added into the final text box.

16. OTHER INFORMATION

HAZARD RATINGS



Drop file from explorer or Select it

HMIS

<input type="checkbox"/> Chronic	Health 1 - Slightly Hazardous	Flammability 2 - Above 100°F not exceeding 200°F	Physical Hazard 1 - Normally stable, but can become unstable at hiç	PPE G- Safety Glasses, Gloves, Vapor Respirator
----------------------------------	----------------------------------	---	--	--

NFPA

Health 1 - Slightly Hazardous	Flammability 2 - Above 100°F not exceeding 200°F	Instability/Reactivity 0 - Stable	Specific hazard N/A
----------------------------------	---	--------------------------------------	------------------------

OTHER

Health Hazards

ADDITIONAL TEXT/DISCLAIMER

SDS web address

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

Safety Data Sheet Document

The following subsections describe methods for generating and distributing the SDS document.

Printing/Emailing Single SDS

The SDS report can be printed from the SDS screen by navigating to **Provenio Procession → Product Safety Data Sheet (SDS)**. To print, first select the SDS record and then click on the printer icon on the right panel. Select “Record” when prompted.

The report parameter screen is shown below:

	Parameter title	Parameter type	First value	Final value
1	SDS ID range	Range	SDS00031	SDS00031
2	Product reference range	Range	FG500-BULK	FG500-BULK
3	Revision Number range	Range	2	2
4	Supplier/Shipper	Single	PROVENIO	
5	Hazard Chart	Single	Show Both	
6	Print selections	Single	No	
7	Company Logo	Single	A010	
8	Enter SDS Locale	Single	USCANADA	
9	Show GHS Code	Single	Yes	
10	Language	Single	ENG	
11				

To email the SDS, select a “Message” output type destination. The SDS can also be printed to file or printer.

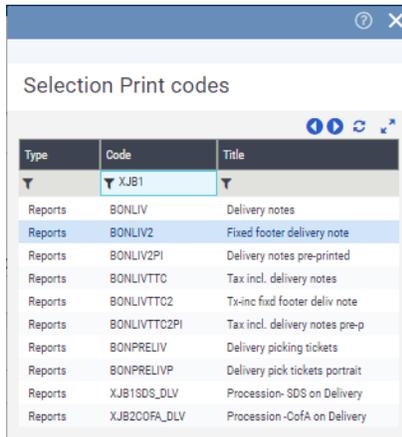
Report Parameter options are:

- **SDS ID Range** – Enter a single SDS number. SDS can be batch printed using the Batch Print option.
- **Product Range** – Enter the product range.
- **Supplier/Shipper** – Determines which company should be shown as the SDS supplier and which logo to use. This field defaults to the supplier defined on the SDS, but it can be changed on the report parameters.
- **Hazard Chart** – Determines if the HMIS Bar Chart and/or the NFPA Diamond will print on the SDS.
- **Company Logo** – If a supplier/shipper is not defined, this company logo is used. Logos may be added to the company record by *selecting Setup → Organizational Structure → Companies*.
- **Enter SDS Locale** – Determines the format of the report and determines which SDS headers to print on the report.

- **Show GHS Code on Section 2** – Determines if the Hazard and Pre-cautionary phrase codes should display on the report. If set to “No”, then only the phrase text will show.
- **Language** – Defaults to the value of the selected SDS.

Printing/Emailing All Safety Data Sheets for a Delivery

When the SDS is printed for a delivery, the latest SDS is printed or emailed for each product on the delivery. The SDS on Delivery report can be run from the Delivery screen in Sage X3 (**Sales**→**Deliveries**→**Deliveries**). To print, first select the SDS record and then click on the printer icon on the right panel. When prompted select “Record” and select the report XJB1SDS_DLV.



Batch Printing/Emailing SDS

The batch print option allows a range of SDS records to be printed to file. One use of this feature is to print to PDF all of the latest SDS revisions. These PDF’s can then be made accessible on a website for persons who do not have access to **Procession**.

The SDS Batch Print option is located on the right panel of the SDS screen.

All > Procession > Regulatory Control Module

Batch print

CRITERIA

Newest revision only

SDS Range → SDS00031 Product range → FG500-BULK

Language range → ENG Revision date range 02/11/18 - 02/11/19

DESTINATION

Report → XJB1SDS_V4 Destination → PDF Storage volume * [ATT]

The fields on this screen are:

- **Newest revision only** – When selected on the latest SDS revision for each product is printed.
- **SDS range** – Enter the beginning and ending SDS numbers or leave blank for all.
- **Product** – Enter the range of products or leave blank for all.
- **Language** – Enter the range of languages or leave blank for all.
- **Revision Date Range** – Enter the range for the last revisions or blank for all.
- **Report** – By default, this value is the standard *Procession* SDS report. However, it can be replaced with a custom SDS report.
- **Destination** – Enter the printer, email, or file destination code.
- **Storage Volume** – Select the Sage X3 storage volume. Note, that you must select a storage volume to which you have access.

Click on Ok to begin printing.

SDS Report Example

The image below is the first page of an example SDS.



Safety Data Sheet Template

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Trade Name: Template Revision Date: 01/30/2019

1.2 Relevant identified uses of the substance or mixture and uses advised against

Paint

1.3 Details of the supplier of the safety data sheet

Provenio Technology, LLC.
102 Mary Alice Park Road
Suite 803
Cumming, GA 30040 US
e-mail: David.Padgett@ProvenioTechnology.com

1.4 Emergency telephone number

CHEMTREC 1-800-424-9300 North America
1-703-741-5500 International

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Carc. 2; STOT RE 1; STOT SE 3

2.2 Label elements



Signal Word: Danger

Hazard Statements

H335-May cause respiratory irritation
H336-May cause drowsiness or dizziness
H351-Suspected of causing cancer
H372-Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

Prevention
P202-Do not handle until all safety precautions have been read and understood.
P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
P264-Wash skin thoroughly after handling.
P270-Do not eat, drink or smoke when using this product.
P271-Use only outdoors or in a well-ventilated area.
P280-Wear protective gloves/protective clothing/eye protection/face protection.

Response

P201-Obtain special instructions before use.
P304+P340-IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P308+P313-IF exposed or concerned: Get medical advice/attention.
P312-Call a POISON CENTER or doctor/physician if you feel unwell.
P314-Get medical advice/attention if you feel unwell.

Trade Name: Template
SDS ID: 0000031

Product ID: FG500-BULK
Revision #: 2

Page 1 of 6
Revision Date: 01/30/2019

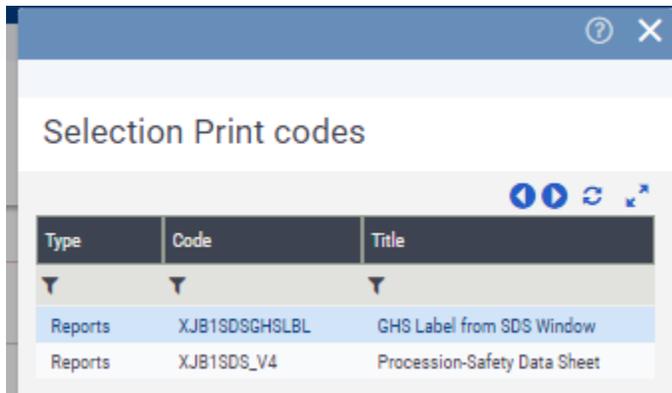
GHS-Compliant Labels

Procession provides the following GHS-Compliant Labels

- SDS Label
- Work Order Label

SDS Label

The SDS label is printed from the SDS window, by selecting the printer icon, selecting “Record” and then selecting the report XJB1SDSGHSLBL.



Enter report parameters

Report code *
XJB1SDSGHSLBL GHS Label from SDS Window

PARAMETERS

	Parameter title	Parameter type	First value
1	SDS	Single	SDS00031
2	Product reference	Single	FG500-BULK
3			

The SDS label prints the GHS information from the SDS. This label is 8 1/2 inches by 14 inches. Additional label sizes can be created by copying and editing this Crystal Report.

FG500-BULK - Template

DANGER



Irritant Health Hazard

Hazard Statements

- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H351 Suspected of causing cancer
- H372 Causes damage to organs through prolonged or repeated exposure

General First Aid

IF exposed or concerned: Get medical advice/attention.

Handling

General Hygiene Considerations : When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Storage

Keeps/Store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

Precautionary Statements

Disposal

P501 Dispose of contents/container to.

Prevention

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P201 Obtain special instructions before use.
- P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.

Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G



Composition

Chemical Name	CAS Number	Concentration % by Weight
Trade Secret	13463-67-7	20 - 30
Classification	Aquatic Chronic 4 Eye Irrit. 2B STOT RE 1	

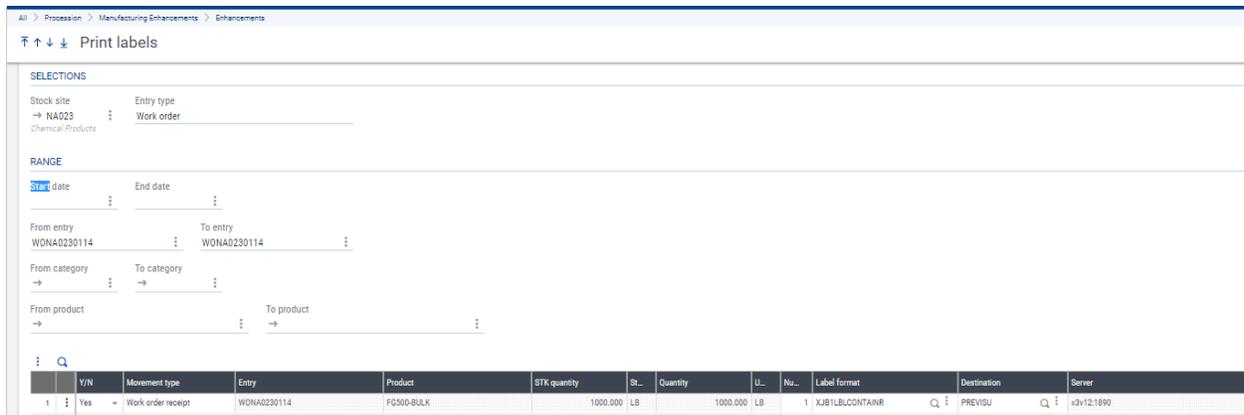
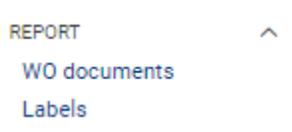


S250031
XJ811SD6GH5L8L RPT

Work Order Label

Standard Sage X3 provides the ability to print product labels for a work order. These labels can be pre-printed with the work order documents and the labels can be used during production. **Procession** provides a GHS-compliant product label that can be used as is, or as a template for creating new labels.

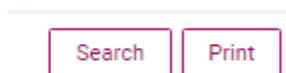
The **Procession** GHS-Compliant Product label can be printed from the Work Order's right menu (**Report>Labels**).



Enter the following information

- Number of Labels – enter the number of labels to print
- Label Format – enter or select the label “XJB1LBLCONTAINR”. (Tip: If you enter “XJB1L” and tab, the system will fill in the rest of the label name)
- Destination – enter or select the print destination.

To print the labels, click on the Print button



The following GHS requirements are included on the label:

- Supplier address
- Product Name
- GHS Pictograms
- Hazard statements
- Precautionary statements

Additional information includes:

- HMIS Bar Chart
- Lot Number
- Net weight per unit

XJB1LBLCONTAINR Label

FG500-BULK - Template

DANGER



Irritant Health Hazard

Hazard Statements

H335 May cause respiratory irritation
 H336 May cause drowsiness or dizziness
 H351 Suspected of causing cancer
 H372 Causes damage to organs through prolonged or repeated exposure

General First Aid:
 IF exposed or concerned: Get medical advice/attention.

Handling:
 General Hygiene Considerations : When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Avoid contact with skin, eyes or clothing.

Storage:
 Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed in a dry and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

Precautionary Statements

Disposal
 P501 Dispose of contents/container to...

Prevention
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response
 P201 Obtain special instructions before use.
 P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.

Storage
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	1
PERSONAL PROTECTION	G

Date of Manufacture
 January 31, 2019



Lot #:
 Net WT: 1.00 LB

Hazardous Components

Chemical Name	CAS #	Concentration % by Weight
Titanium dioxide	13463-67-7	20 - 30
Classification: Aquatic Chronic 4 Eye Irrit. 2B STOT RE 1		



Since methods and conditions of use are beyond our control, all merchandise is sold and received subject to the condition that our liability for any defect in quality or for lack of fitness for the use made thereof, is limited to the purchase price if written claim is made within 90 days from the date of shipment.
 SD500031 **FOR INDUSTRIAL USE ONLY** XJLBLLCONTAINRPT

Regulation Reporting Overview (Updated in Neon)

The **Procession** Regulation Reporting feature consists of an inquiry screen and a report. The data from this feature can be used for:

- Tier I and Tier II reporting
- Reporting of Import or Manufacturing limits imposed by chemical inventory list.

This feature can be accessed from the menu option **Procession**→**Regulatory Control Module**→**Inquiries**→**Regulation Reporting**

The screenshot displays the 'Regulation Reporting' inquiry screen. At the top, there are search filters: Stock site (NA023), Session Number (15359627395DJP), Cas Number Start, Cas Number End, Start date (01/01/20), and End date (07/13/20). The weight unit is set to LB. Below the filters, there are two tables:

CAS

	CAS-No	EC No	Chemical Name	On hand (Weight)	Max. on Hand (...)	Date Maxim...	Pr...
1	7732-18-5	231-791-2	Water	1015.49	1021.43	07/10/20	FGI
2	100-41-4	202-849-4	Ethylbenzene	18.07	18.18	07/10/20	FGI
3	10277-43-7		Nitric acid, lanthanum(3+) sal	1.05	1.06	07/10/20	FGI
4	124-68-5	204-709-8	2-Amino-2-methyl-1-propanol	1.35	1.36	07/10/20	FGI
5	1314-13-2	215-222-5	Zinc oxide	1173.64	1180.5	07/10/20	FGI
6	1336-21-6	215-647-6	Ammonium hydroxide	2.56	2.58	07/10/20	FGI
7	13463-67-7	236-675-5	Titanium dioxide	2736.35	2752.34	07/10/20	FGI
8	1897-45-6	217-588-1	Chlorothalonil	704.15	708.27	07/10/20	FGI
9	25265-77-4	246-771-9	2,2,4-Trimethylpentane-1,3-dio	126.22	126.96	07/10/20	FGI
10	54193-36-1		Sodium polymethacrylate	83.59	84.08	07/10/20	FGI
11	57-55-6	200-338-0	1,2-Propylene glycol	469.48	472.23	07/10/20	FGI
12							

Product

	Product	Current on Ha...	Max. on Hand (...)	Date Maxim...	Average on Hand (...)	Received (Weig...	Issued (Weight)	Returned Ship
1	FG500-5	912	1000	07/10/20	75.57	1000	-88	
2	FG500-55	4350.21	4350.21	07/13/20	959.28	4350.2051		
3	FG500-BULK	9800	9800	07/13/20	2358.46	10100	-300	

This feature calculates totals during a period and allows the reporting of chemicals that exceed a limit or threshold that is defined on the Regulation Tab of the CAS Maintenance record.

Examples of regulations with manufacture or import limits are U.S. TSCA, or the Canadian Domestic or Non-Domestic Substances List regulations. An example of a regulation with a reporting requirement based upon the storage amount is the U.S. Community Right to Know Act, commonly known as SARA.

Creating an Regulation Reporting Session

The screenshot shows a form for creating a Regulation Reporting Session. The fields are as follows:

Stock site	Session Number	Cas Number Start	Cas Number End	Start date	End date	Threshold %
→ NAO23	15299048256DJP			01/01/18	11/15/18	100.00
Import Limit Percent	Weight unit					
100.00	LB					

Procession uses the concept of reporting sessions for the regulation reporting. A reporting session is a record that stores the results for each regulation calculation. When a Regulation Reporting session is created or saved, the chemical inventory is calculated for the specified period and stored with the session.

For example, a reporting session may be created on an annual basis and these static results can be referenced at future dates.

Calculations are performed and reported for both products and CAS records.

Header Tab

Fields on the Regulation Reporting header section are:

- **Stock site** – Site used in the calculations. Since each site may have different regulatory requirements, only one site can be calculated at a time.
- **Session Number** – Unique Id for the session. This number is automatically generated when a new session is initiated by clicking the “New” button.
- **CAS Range** – Range of CAS numbers for the calculation. If the range is not defined, all CAS numbers will be included.
- **Date Range** – Date range for the calculation.
- **Weight Unit** – Determines if the reporting criteria is based upon pounds or KG. The stock quantity for each CAS is first converted to this weight unit and the resulting weight is compared to the limits. Therefore, a **consistent** weight unit must be used in both the regulation limits and in the regulation reporting session. Weight units that differ will lead to incorrect results.

Below is the regulations tab on the CAS Master screen. (See [CAS Master Regulations](#) for more information on the threshold and import limit setup.)

The screenshot shows the REGULATIONS tab with a table of regulatory information. The table has the following columns: Regulatory Code, Regulation Title, On List, Import/Manufactur..., Threshold, and Notes.

Regulatory Code	Regulation Title	On List	Import/Manufactur...	Threshold	Notes
1 CRANJ	New Jersey Right To Know Components	Yes	0.0000	100 Lbs	SOOGS Conclusion Type No. 1 SOOI

Regulation Reporting Calculations

When a regulation reporting session is created or saved, **Procession** performs calculations based upon the stock journal (STOJOU table) and the current inventory on hand (ITMMVT table PHYSTO+CLTSTO+REJSTO fields).

The calculation first builds a list of all products that have regulations with limits. Regulation limits are determined at this stage based upon whether a threshold or import/manufacture limit was defined on the regulation master (See the [Regulations](#) section for more information on setting these top-level limits).

The list of products is further refined to only include products with CAS#'s that are in the CAS range for this product. CAS #'s are defined on either the product record or SDS record for the product.

Product totals are calculated and stored to the Products tab. These product totals are then converted into CAS totals, based upon the CAS % that is defined for the product on either the product record or the SDS record. If the product has an upper and lower CAS % range defined, the upper CAS% value is used in the calculation.

The product calculation starts with the current inventory on-hand, regardless of the end date set for the session. Next, using the stock journal, the “on-hand” is calculated for each prior date, until the specified start date is reached. An end-of-day quantity is calculated for each date in the specified date range and then converted to a weight unit.

The weight is determined based upon the values defined on the product’s UOM tab.

UNITS OF MEASURE

UNITS OF MEASURE

Stock unit *	Density	STK label format	Weight unit	STK weight	Volume unit	STK volume	Purchase unit
→ LB Pound	1.415700		→ LB Pound	1.000	→	1.000	→ LB Pound
PUR-STK conv.	Sales unit	SAL-STK conv.	<input type="checkbox"/> Changeable	Statistic unit	STA-STK conv.	EU unit	EU-STK conv.
→ LB 1.000000 Pound	→ LB Pound	→ LB 1.000000 Pound		→ LB Pound	→ LB 1.000000 Pound	→ LB Pound	→ LB 1.000000 Pound

PACK UNIT

The calculation of weight is based upon the following cascading logic:

- If the product’s Stock Unit matches the calculation Weight Unit, then no conversion occurs.
- If the product’s Weight Unit matches the calculation Weight Unit AND the **Procession** Parameter XJBITMWTYP equals “NET”, then the weight is calculated as Stock Quantity * Product STK Weight.
- If the product’s Purchase Unit or Sales Unit matches the calculation Weight Unit, then the weight is calculated as Stock Quantity divided by (either PUR-STK conv. Or SAL-STK conv.)
- If density is defined for the product and the product volume is defined in the same volume units as specified in the **Procession** parameter XJBPTYUNT (ex. “lbs/gal” or “g/l”), then the calculation will first calculate the volume and the volume and density are used to calculate the weight.
- If the product’s Stock Unit is weight, but not the calculation Weight Unit, then the factor defined in Sage X3 unit conversion table is used to convert the weight.

For example,

UNITS OF MEASURE

UNITS OF MEASURE

Stock unit *	Density	STK label format	Weight unit	STK weight	Volume unit	STK volume	Purchase unit
→ CS Case	1.219730		→ LB Pound	53.000	→ G Gallon	5.000	→ CS Case
PUR-STK conv.	Sales unit	SAL-STK conv.	Changeable	Statistic unit	STA-STK conv.	EU unit	EU-STK conv.
1.000000	→ CS Case	1.000000	<input type="checkbox"/>	→ LB Pound	1.000000	→ LB Pound	1.000000

BACK LIMIT

In this example, the XJBITMWYYP parameter is set to “GROSS”. Gross weight includes the product packaging weight plus the net product weight in the STK Weight field. The net weight of the product is calculated using the Density (i.e. Specific Gravity), STK Volume, and the density of water (defined in the XJBDTYH2O parameter).

The net weight for one case of this product is calculated as:

$$\text{Lbs.} = (\text{Density} * \text{Density of Water}) * \text{Gallons per Case} = (1.219730 * 8.3485) * 5 = 50.91458 \text{ Lbs.}$$

So, the net weight of a case of this product is 50.91458 LBS or 23.09447 KG.

(See [PARAMETER SETUP](#) for more information on parameter values)

The maximum on-hand quantity and the average on-hand quantities for each product are based upon the calculated weights for days in the defined date range. Once the product totals have been calculated, these totals are used to calculate the CAS totals, again based upon the CAS percentages defined for the product.

Lastly, the results of each CAS are compared against the threshold limits and import/manufacture limits for each regulation defined on the CAS master. If the CAS total exceeds the threshold % or the import/manufacture limit % that is defined, then the CAS record is saved to the CAS tab of the screen.

Regulation Reporting CAS Results

CAS

	CAS No	ED No	Chemical Name	On hand (Weight)	Max. on Hand (Weight)	Date Maximum W.	Product with Maximum Weight	Average on Hand (%)
1	13463-67-7	236-675-5	Titanium dioxide	1023.40	1571.9	11/15/18	FG500-5	655
2	67-63-0	200-661-7	Isopropyl alcohol	30.50	30.5	11/15/18	FG500-5	
3	7732-18-5		Water	11900.00	11900	11/15/18	RM500	
4								

The CAS results of the calculation are shown on the CAS tab. Below is a popup image of one row of this data.

CAS-No → 13463-67-7	Max. on Hand (Weight) 1571.9	Received (Weight) 570.79968	Regulatory Code - Threshold → RCH39
EC No 236-675-5	Date Maximum Weight 11/15/18	Issued (Weight)	Threshold 0.0000
Chemical Name Titanium dioxide	Product with Maximum Weight → FG500-5	Returned Shipments	Regulatory Code - Import Limit → RCH39
On hand (Weight) 1023.40	Average on Hand (Weight) 655.1738	Receipts Returned	Import/Manufacture Limit 0.0000

The data in this section is based upon the filter range specified for this regulation reporting session.

The fields on this section are:

- **CAS-No** – CAS number for the chemical.
- **EC No.** – EC Number defined in the CAS Master.
- **Chemical Name** – Chemical Name for the CAS defined in the CAS Master.
- **On Hand (weight)** – On-hand weight on the last date of the specified period.
- **Max. On Hand (Weight)** – Highest daily on-hand weight for this chemical.
- **Date Maximum Weight** – Date that the maximum weight occurred. This date helps to narrow the amount of data to be audited.
- **Product with Maximum Weight** – Product which contains this chemical that most directly contributed to the maximum weight for the chemical. This value is also provided to narrow the amount of data when auditing these numbers.
- **Average on Hand (Weight)** – Average daily weight in-stock.
- **Received (Weight)** – Total weight received.
- **Issued (Weight)** – Total weight issued.
- **Returned Shipments** – Weight of Customer Returns.
- **Receipts Returns** – Weight of Purchase Returns.
- **Regulatory Code – Threshold** – If the CAS exceeded the threshold % for a regulation defined on the CAS Master, then that regulation is listed here. If the CAS exceeds the threshold % for multiple regulations, only the first regulation is listed here.
- **Threshold** – Threshold limit for the regulation listed in the Regulatory Code – Threshold column.
- **Regulatory Code –Import Limit** - If the CAS exceeded the Import Limit Percent for a regulation defined on the CAS Master, then that regulation is listed here. If the CAS exceeds the Import Limit Percent for multiple regulations, only the first regulation is listed here.
- **Import/Manufacture Limit** – Limit for the regulation listed in the Regulatory Code –Import Limit column.

Regulation Reporting Product Results

PRODUCT									
	Product	Current on Hand (Wei..)	Max. on Hand (Weight)	Date Maximum W..	Average on Hand (We..)	Received (Weight)	Issued (Weight)	Returned Shipments	Receipts Returned
1	FG500-BULK	2500	2500	11/15/18	849.91	1698			
2									

The product results are shown on the product tab. The product results are calculated first and then used in calculating the CAS results based upon the CAS% defined for each product.

Fields on this tab are:

- **Product** – Product ID
- **Current on Hand (Weight)** – Weight as of the end of date for the End Date defined for the regulation reporting session.
- **Max. On Hand (Weight)** – Highest daily on-hand weight for the product.
- **Date Maximum Weight** – Date that the maximum weight occurred. This date helps to narrow the amount of data to be audited.
- **Product with Maximum Weight** – Product which contains this chemical that most directly contributed to the maximum weight for the chemical. This value is also provided to narrow the amount of data when auditing these numbers.
- **Average on Hand (Weight)** – Average daily weight in-stock.
- **Received (Weight)** – Total weight received.
- **Issued (Weight)** – Total weight issued.
- **Returned Shipments** – Weight of Customer Returns.
- **Receipts Returns** – Weight of Purchase Returns

Regulation Reporting Report

The regulation report provides the specifics on how the CAS weights are calculated. This report is named XJB1RGREP and can be printed from the Regulation Reporting window by clicking on the Printer icon in the right panel and selecting “Record”.

↑ ↓ ↕ Enter report parameters

Report code *				
XJB1RGREP		Regulation Reporting		
PARAMETERS				
	Parameter title	Parameter type	First value	Final value
1	Session Number	Single	15299048256DJP	
2				

The report is printed for a regulation report session. The report shows a grey line with the totals for each CAS number.

Details for each CAS are shown under the grey line. The detail shows each product that contains the chemical and which had either on-hand quantity or transactions during the specified period. Also shown is the CAS % that is defined for the product.

Procession Regulation Reporting

Session Number #: 15247534323D

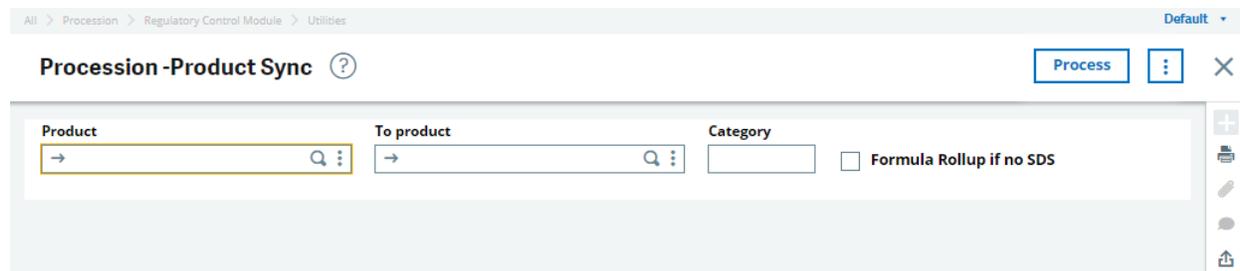
Date Range : 1/1/17 to 12/31/17

Site : NAO23

CAS#	Max Onhand Threshold	% of Threshold	Import/Receipt Limit	% of Limit	Current On-hand	Net Received	Net Issued	Average On-Hand	Maximum On-hand
111-76-2	200.00	16.50	50.00	159.46	2,302.33	79.73	-0.37	2,247.08	2,304.55
<u>Product</u>					<u>Received Quantity</u>	<u>Issued Quantity</u>	<u>CAS%</u>	<u>Net Qty Received</u>	<u>Net Qty Issued</u>
137228	ORANGE TERPENE				33.00	-1.00	37.00%	12.21	-37.00
<u>Product</u>					<u>Received Quantity</u>	<u>Issued Quantity</u>	<u>CAS%</u>	<u>Net Qty Received</u>	<u>Net Qty Issued</u>
33125	Bug Reaper Insecticide				2,250.66	0.00	3.00%	67.52	0.00
7440-23-5	100.00	33.00	0.00	0.00	1,260.78	205.61	-0.56	1,111.36	1,260.78
<u>Product</u>					<u>Received Quantity</u>	<u>Issued Quantity</u>	<u>CAS%</u>	<u>Net Qty Received</u>	<u>Net Qty Issued</u>
137228	ORANGE TERPENE				33.00	-1.00	5.00%	1.65	-5.00
<u>Product</u>					<u>Received Quantity</u>	<u>Issued Quantity</u>	<u>CAS%</u>	<u>Net Qty Received</u>	<u>Net Qty Issued</u>
33126	Crystal Clear Glass Cleaner				4,079.21	-10.17	5.00%	203.96	-50.86

Product Sync from SDS or Formula Utility (New in Neon)

This utility is used to update the Product from the SDS or Formula. This feature can be accessed from the menu option **Procession**→**Regulatory Control Module**→**Utilities**→**Product Sync from SDS or Formula**.



The screenshot shows the 'Procession -Product Sync' utility interface. At the top, there is a breadcrumb trail: 'All > Procession > Regulatory Control Module > Utilities'. The title bar includes 'Procession -Product Sync' with a help icon, a 'Process' button, a menu icon, and a close icon. The main area contains three search fields: 'Product', 'To product', and 'Category'. The 'Product' and 'To product' fields have a search icon and a dropdown arrow. The 'Category' field is empty. To the right of the 'Category' field is a checkbox labeled 'Formula Rollup if no SDS'. On the far right, there is a vertical toolbar with icons for add, print, edit, and share.

The options for this utility are:

- **Product Range** – Define the product range that will be updated or leave blank in order to update all.
- **Category** – Enter the product category field in order to only update products for the specified category.
- **Formula Rollup if no SDS** – This feature is used in order to populate the product's chemical composition based upon the formula, if not SDS exists for the product. This feature is typically used in order to update the chemical composition for intermediate products. In turn, when the intermediate is used on a formula, its product's chemical composition is used in determining the formula chemical composition.

Click Process in order to start the utility.

Appendix 1 – Local Menus

Procession uses local menus to provide standard statements, settings, and agency required responses on many screens, windows, and reports. Local menus are accessed by *selecting* **Development → Data and Parameters → Tables → Local menus – Messages**.

The **Procession** local menus are listed below. Only local menus that are flagged as “Changeable” on the local menu screen should be modified. When modifying a local menu, add new entries to the end of the list, instead of replacing items within the list. Local menu values are stored in data as integers, with the integer value based upon the position of the selected item in the list. If a local menu item is deleted, the position stored for the local menu in existing data will no longer match the list. This can cause the selected value to change to whatever item currently resides in that position in the list.

Local menu modifications may require a user to logout and restart their Sage X3 session in order to have access to the changes.

Local Menu 4845 – HMIS Health Levels

This menu defines the HMIS Health ratings used on the product and SDS screens.

Chapter	Description
4845	HMIS Health Level

CHARACTERISTICS

Module	Activity code
Common Data	XJB1 <small>Procession-Product SDS/Hazmat</small>

Changeable Do not translate

LIST OF VALUES

6 Results Display: 25

	Number	Code	Message
1	1	B	
2	2	0	0 - Normal Material
3	3	1	1 - Slightly Hazardous
4	4	2	2 - Hazardous
5	5	3	3 - Extreme Danger
6	6	4	4 - Deadly

Local Menu 4846 – HMIS Flammability Levels

This menu defines the HMIS Flammability levels, which are used on the product and SDS screens.

Chapter: 4846 Description: HHMIS Flammability Level

CHARACTERISTICS

Module: Common Data Activity code: XJB1
Procession-Product SDS/Hazmat

Changeable Do not translate

LIST OF VALUES

6 Results Display: 25

	Number	Code	Message
1	1	B	
2	2	0	0 - Will not Burn
3	3	1	1 - Above 200°F
4	4	2	2 - Above 100°F not exceeding 200°F
5	5	3	3 - Below 100°F
6	6	4	4 - Below 73°F

Local Menu 4847 – HMIS Physical Hazards

This local menu defines the HMIS Physical Hazards, which are used on the product and SDS screens.

Chapter: 4847 Description: Physical Hazard

CHARACTERISTICS

Module: Common Data Activity code: XJB1
Procession-Product SDS/Hazmat

Changeable Do not translate

SIZE

Length:
Mini:

LIST OF VALUES

6 Results Display: 25

	Number	Code	Message
1	1	B	
2	2	0	0-Stable, even under fire conditions and will not re-act with water, etc.
3	3	1	1-Normally stable, but can become unstable at high temperatures and pressures.
4	4	2	2-Unstable or may undergo violent changes at normal temperature and pressure.
5	5	3	3-May form explosive mixtures with water and are capable of self-reaction or decomposition
6	6	4	4-Readily capable of explosive water reaction, decomposition, polymerization, or self reaction
7			

Local Menu 4848 – Personal Protection Equipment

This menu defines the PPE codes used on the product and SDS screens.

Chapter	<input type="text" value="4848"/>	Description	<input type="text" value="Personal Protection Equipment"/>
CHARACTERISTICS		SIZE	
Module	<input type="text" value="Common Data"/>	Activity code	<input type="text" value="XJB1"/>
		<small>Procession-Product SDS/Hazmat</small>	<input type="text"/>
<input type="checkbox"/> Changeable		<input type="checkbox"/> Do not translate	<input type="text"/>
LIST OF VALUES			
<input type="text"/> 13 Results Display: 25			
	Number	Code	Message
1	1	Z	
2	2	A	A- Safety Glasses
3	3	B	B- Safety Glasses and Gloves
4	4	C	C- Safety Glasses, Gloves, Apron
5	5	D	D- Face Shield, Gloves, Apron
6	6	E	E- Safety Glasses, Gloves, Dust Respirator
7	7	F	F- Safety Glasses, Gloves, Apron, Dust Respirator
8	8	G	G- Safety Glasses, Gloves, Vapor Respirator
9	9	H	H- Splash Goggles, Gloves, Apron, Vapor Respirator
10	10	I	I- Safety Glasses, Gloves, Dust/Vapor Respirator
11	11	J	J- Splash Goggles, Gloves, Apron, Dust/Vapor Respirator
12	12	K	K- Airline Hood or Mask, Gloves, Full Suit and Boots
13	13	X	X- Ask Supervisor or Safety Specialist for Handling Instructions
14			

Local Menu 4849 – Reactivity Levels

This local menu defines the reactivity levels, which are used on the product and SDS screens.

Chapter	Description
4849	HMIS Reactivity Level

CHARACTERISTICS

Module	Activity code
Common Data	XJB1 <small>Procession-Product SDS/Hazmat</small>

Changeable Do not translate

LIST OF VALUES

8 Results Display: 25

	Number	Code	Message
1	1	B	
2	2	0	0- Stable
3	3	1	1- Unstable if heated
4	4	2	2- Violent Chemical change
5	5	3	3- Shock & Heat may detonate
6	6	4	4- May Detonate

Local Menu 4850 – Specific Hazards

This local menu defines the specific hazards, which are used on the product and SDS screens.

Chapter	Description
4850	HMIS - Specific Hazard

CHARACTERISTICS

Module	Activity code
Common Data	XJB1 <small>Procession-Product SDS/Hazmat</small>

Changeable Do not translate

LIST OF VALUES

11 Results Display: 25

	Number	Code	Message
1	1	B	N/A
2	2	0	OXY - Oxidizer
3	3	1	W - Reacts with Water
4	4	2	SA - Simple Asphyxiant Gas
5	5	3	ACID
6	6	4	ALK - Alkaline
7	7	5	BIO - Biological Hazard
8	8	6	COR - Corrosive
9	9	7	CRYO - Cryogenic
10	10	8	POI - Poisonous
11	11	9	RAD - Radioactive

Local Menu 4851 – HMIS/NFPA Report Options

When printing the SDS or Batch Ticket reports, users have the option of whether to print the HMIS Bar Chart, NFPA Diamond, Both, or neither.

Local menu



Chapter: 4851 Description: Report HMIS/NFPA Options

CHARACTERISTICS

Module: Manufacturing Activity code: XJB1
Procession-Product SDS/Haz...

Changeable Do not translate

LIST OF VALUES

	Number	Code	Message
1	1	1	Show HMIS Bar Chart
2	2	2	Show NFPA Diamond
3	3	3	Don't Show
4	4	4	Show Both
5	0		

Local Menu 4852 – Property Types

Property types are used to group properties. When property types are selected on a product or SDS, the properties for the type are loaded into the product or SDS record. Property Types are assigned to properties defined in [MISCELLANEOUS TABLE 4848](#). Property types can be added to this list after the “Manual Entry” property type. Use caution if deleting a property type if properties have been assigned. This is because deleting a local menu item in Sage X3 can cause data to change wherever the property type is assigned.

IDENTIFIER

Chapter: 4852 Description: Property Types Local menu

CHARACTERISTICS

Module: Supervisor Activity code: XJB1 Changeable Do not translate
Procession-Product SDS/Hazmat

SIZE

Length: Mini Maxi

LIST OF VALUES

9 Results Display: 25

	Nu...	C...	Message
1	1	1	
2	2	2	Chemical
3	3	3	Paint
4	4	4	Food
5	5	5	Coatings
6	6	6	Manual Entry
7	7	7	Nutrients
8	8	8	Other
9	9	9	Beverage
10			

Local Menu 4853 – State Registration Hold

This menu holds the restriction types used by the State Registration Object. These options dictate how the Sales Order responds when a product is placed on an order in a particular state. Options are selected using a dropdown menu on the State Registration screen. To see more on how **Procession** uses these options refer to STATE/PROVINCE REGISTRATION SETUP section of the Manufacturing/Distribution Enhancements User Guide.

Chapter: 4853 Description: State Registration Hold

CHARACTERISTICS

Module: Sales Activity code: XJB1 Changeable Do not translate
Procession-Product SDS/Hazmat

LIST OF VALUES

	Number	Code	Message
1	1	A	No Blocks/Hold If Not Registered
2	2	B	Block if Can't Sell/No Holds
3	3	C	Block If Not Registered/No Holds
4			

Local Menu 4854 – Precautionary Statement Types

This local menu defines the pre-cautionary statement types and is used on SDS and products screens.

Chapter: 4854   Description: Precautionary Statement Type

CHARACTERISTICS

Module: Common Data  Activity code: XJB1  
Procession-Product SDS/Haz...

Changeable Do not translate

SIZE

Length:
Mini:

LIST OF VALUES

  5 Results Display: 25 

	Number	Code	Message
1	1	1	General
2	2	2	Prevention
3	3	3	Response
4	4	4	Storage
5	5	5	Disposal
6	0		

Local Menu 4855 – Hazard Statement Types

This local menu defines GHS hazard types and is used on the SDS and product screens.

Chapter: 4855   Description: Hazard Statements

CHARACTERISTICS

Module: Common Data  Activity code: XJB1  
Procession-Product SDS/Hazmat

Changeable Do not translate

LIST OF VALUES

	Number	Code	Message
1	1	2	Physical Hazards
2	2	3	Health Hazards
3	3	4	Environmental Haz
4			

Local Menu 4856 – GHS Signal Word

This local menu defines the signal word and is used on products and SDS.

Chapter	<input type="text" value="4856"/>	Description	<input type="text" value="Signal Word"/>
CHARACTERISTICS			
Module	<input type="text" value="Common Data"/>	Activity code	<input type="text" value="XJB1"/>
		<small>Procession-Product SDS/Hazmat</small>	
<input type="checkbox"/> Changeable	<input type="checkbox"/> Do not translate		
LIST OF VALUES			
<input type="text"/> <input type="text"/>			
	Number	Code	Message
1	1	N	No Signal Word
2	2	D	Danger
3	3	W	Warning
4			

Local Menu 4857 – Exposure Types

This local menu defines exposure types and is used on the products and SDS. Additional exposure types can be added to the end of this list.

Local menus



Chapter: 4857

Description: Exposure Type

CHARACTERISTICS

Module: Common Data

Activity code: XJB1

Procession-Product SDS/Haz...

Changeable Do not translate

LIST OF VALUES

11 Results Display: 25

	Number	Code	Message
1	1	1	
2	2	O	OSHA PEL
3	3	A	ACGIH TLV
4	4	W	WORKERS
5	5	N	NIOSH
6	6	C	CAL/OSHA
7	7	D	DNEL-Worker
8	8	E	DNEL-Consumer
9	9	F	QUEBEC
10	10	G	ONTARIO
11	11	H	BRITISH COLUMBIA
12	0		

Local Menu 4858 – Regulation Sections

This local menu defines the sections that are defined for each regulation. Additional sections can be added to the end of this list.

Local menus



Chapter: 4858 Description: Regulation Sections

CHARACTERISTICS

Module: Common Data Activity code: XJB1
Procession-Product SDS/Haz...

Changeable Do not translate

LIST OF VALUES

21 Results Display: 10 1 2 3

	Number	Code	Message
1	1	1	
2	2	2	302
3	3	3	304
4	4	4	311/312
5	5	5	313
6	6	6	Annex I
7	7	7	Annex XIV
8	8	8	Annex X
9	9	9	Annex XVII
10	10	A	Appendix 8 and Appendix 9

Local Menu 4859 – Regulatory Agency

This local menu defines the regulatory agencies that are stored with each regulation. Additional agencies may be added to the end of this list.

IDENTIFIER			
Chapter	Description	<input checked="" type="checkbox"/> Local menu	
4859	Regulatory Agency		
CHARACTERISTICS			
Module	Activity code	<input checked="" type="checkbox"/> Changeable	<input type="checkbox"/> Do not translate
Common Data	XJB1 <i>Procession-Product SDS/Hazmat</i>		
SIZE			
Length	Mini	Maxi	
LIST OF VALUES			
11 Results Display: 25			
	Nu..	C..	Message
1	1	1	
2	2	2	EPA
3	3	3	ECHA
4	4	4	Environment Canada
5	5	5	Australian Department of the Environment
6	6	6	Argentina Secretaria de Ambiente y Desarrollo Sustentable
7	7	7	New Zealand EPA
8	8	8	U.K. Environment Agency
9	9	9	Department of Homeland Security
10	10	A	OEHHA
11	11		FDA

Local Menu 4860 – SDS Composition Lower %

This local menu defines equivalency operators that are used in defining chemical composition ranges on the CAS Maintenance, SDS, or Product records.

IDENTIFIER

Chapter 4860 Description SDS Composition Lower % Local menu

CHARACTERISTICS

Module Common Data Activity code → XJB1 Changeable Do not translate
Procession-Product
SDS/Hazmat

SIZE

Length Mini Maxi

LIST OF VALUES

	Nu...	C...	Message
1	1	A	
2	2	B	=
3	3	C	>=
4	4	D	>

Local Menu 4861 – SDS Composition Upper %

This local menu defines equivalency operators that are used in defining chemical composition ranges on the CAS Maintenance, SDS, or Product records.

IDENTIFIER

Chapter 4861 Description SDS Composition Upper % Local menu

CHARACTERISTICS

Module Common Data Activity code → XJB1 Changeable Do not translate
Procession-Product
SDS/Hazmat

SIZE

Length Mini Maxi

LIST OF VALUES

	Nu...	C...	Message
1	1	A	
2	2	B	=
3	3	C	<=
4	4	D	<

Local Menu 4864 – State Registration

This menu holds the registration codes for the State Registration Object. These options are available as a dropdown menu for each state in relation to the registration code.

Chapter: 4864 Description: State Registration

Characteristics

Module: Sales Activity code: XJB1 (Procession-Product SDS/Hazmat)

Changeable Do not translate

Size

Length: Mini:

List of values

	N...	Code	Message
1	1	N	None
2	2	R	Registered
3	3	C	Can't Sell
4			

To see more on how **Procession** uses these options refer to STATE/PROVINCE REGISTRATION SETUP section of the Manufacturing/Distribution Enhancements User Guide.

Local Menu 19151 – Formula Hazard Unit

IDENTIFIER

Chapter 19151 Description Procession-Formula Hazard Unit Local menu

CHARACTERISTICS

Module Manufacturing Activity code → XJB1 Changeable Do not translate
*Procession-Product
SDS/Hazmat*

SIZE

Length 10 Mini Maxi

LIST OF VALUES

11 Results Display: 25

	Nu...	C...	Message
1	:	1 0	
2	:	2 1	g/kg
3	:	3 2	mL/kg
4	:	4 3	µL/kg
5	:	5 4	mg/g
6	:	6 8	°C
7	:	7 6	ppm
8	:	8 7	mg/kg
9	:	9 9	%
10	:	10 A	ppmV
11	:	11 B	mg/L
12	:		

Local Menu 19152 – Physical State

IDENTIFIER

Chapter 19152 Description Physical State Local menu

CHARACTERISTICS

Module Manufacturing Activity code Changeable Do not translate
 → XJB1
*Procession-Product
 SDS/Hazmat*

SIZE

Length Mini Maxi

LIST OF VALUES

		Nu...	C...	Message
1		1	1	
2		2	2	Liquid
3		3	3	Solid
4		4	4	Gas

Local Menu 19153 –Toxicity Inhalation Form

IDENTIFIER

Chapter 19153 Description Toxicity Inhalation Form Local menu

CHARACTERISTICS

Module Manufacturing Activity code Changeable Do not translate
 → XJB1
*Procession-Product
 SDS/Hazmat*

SIZE

Length Mini Maxi

LIST OF VALUES

		Nu...	C...	Message
1		1	1	
2		2	2	Gas
3		3	3	Vapor
4		4	4	Dust/mist
5				

Local Menu 19154 – Flag (Auto/Manual)

IDENTIFIER

Chapter 19154   Description Flag (Auto/Manual) Local menu

CHARACTERISTICS

Module External  Activity code   Changeable Do not translate
→ XJB1
*Procession-Product
SDS/Hazmat*

SIZE

Length Mini Maxi

LIST OF VALUES

  5 Re

		Nu...	C...	Message
1		1	M	Manual
2		2	A	Auto
3		3	I	Imported
4		4	T	Template
5		5	L	Last SDS Revision
6				

Local Menu 19155 – Flag (Template/Revision)

IDENTIFIER

Chapter 19155 Description Flag (Template/Revision) Local menu

CHARACTERISTICS

Module External Activity code → XJB1
*Procession-Product
 SDS/Hazmat* Changeable Do not translate

SIZE

Length Mini Maxi

LIST OF VALUES

		Nu...	C...	Message
1		4	L	Template
2		5	M	Last SDS Revision
3				

Local Menu 19160 – LOLI – GHS Update

IDENTIFIER

Chapter 19160 Description Loli - GHS Update Local menu

CHARACTERISTICS

Module Supervisor Activity code → XJB8
*Properties & Loli
 Integration* Changeable Do not translate

SIZE

Length Mini Maxi

LIST OF VALUES

		Nu...	C...	Message
1		1	1	All Locales
2		2	2	Specific Locale
3		3	3	None
4				

Local Menu 19172 – LOLI Service Type

IDENTIFIER

Chapter 19172   Description LOLI Service type Local menu

CHARACTERISTICS

Module Supervisor  Activity code   Changeable Do not translate
→ XJB1
*Procession-Product
SDS/Hazmat*

SIZE

Length Mini Maxi

LIST OF VALUES

		Nu..	C..	Message
1		1	1	Database
2		2	2	API - Web Service
3				

Appendix 2 – Miscellaneous Tables

Miscellaneous Table 4848 –SDS Properties

This table contains the list of properties that are available on the product and SDS screens. Users can access this data by navigating to **Development** → **Data and Parameters** → **Miscellaneous Tables** → **Data**. The table has the following fields:

- **Code** – Unique code for each property.
- **Description** –Property description.
- **Short Description** – Short property description.
- **Sort Order** – Order which the property should appear in the list for a product or SDS.
- **Def Value**– Default value to be populated for this property when it is selected.
- **Property Type**– Grouping for the property. When a property type is selected on a product or SDS, all properties assigned to that property type are automatically added to the product or SDS.
- **LOLI ID** – Mapping of the property to a LOLI list. This data is for reference only at this time.
- **LOLI Update** – Indicates if the property should be updated from LOLI. This data is for reference only at this time.

Miscellaneous tables



Table *	Description	Dependency table
4848	SDS Properties	

LIST OF VALUES

30 Results Display: 10 1 2 3 4

	Code	Description	Short description	Sort Order	Def Value	Property Typ	LOLI ID	LOLI Update
1	APP	Apperances	Apperances	APP		Chemical	12	Yes
2	AUTOI	Autoignition Temp	Autoignition	AUTOI		Chemical	9	Yes
3	BIOFC	Bio concentration Factors	Bio Factor	BIOFC		Chemical	3583	No
4	BOIL	Boiling Points	Boiling Pt	BOIL	not available	Chemical	13	Yes
5	BUDEN	Bulk Densities	Bulk Density	BUDEN		Chemical	1883	No
6	COEOC	Coefficient of Octanol	COE of Octan	COEOC		Chemical	11	Yes
7	COLOR	Color	Color	COLOR		Chemical	2464	No
8	DENS	Densities	Density	DENS		Chemical	14	Yes
9	EVAP	Evaporation Rate	Evaporation	EVAP		Chemical	10	Yes
10	EXMED	Extinguishing Media	Exten. Media	EX Media		Chemical	15	Yes

Miscellaneous Table 4849 – GHS LOLI List

This table holds the list of available countries that are available when executing the LOLI integration utility. The data is limited to the countries that are available in the ChemAdvisor® LOLI. Additional countries can be added as they become available.

Table ★ Description Dependency table

LIST OF VALUES

12 Results Display: 75

	Code	Description	Short description	CNTY	LISTID
1	AUS	Australia	Australia	Australia	4457
2	EFF	EFFA	EFFA	EFFA	5399
3	EU	European Union	EU	EU	4452
4	IND	Indonesia	IND	IND	4458
5	JAP	Japan	JAP	JAP	4459
6	KOL	Korea - MOEL	KOL	KOL	4461
7	KOM	Korea - MOE	KOM	KOM	4480
8	KON	Korea - NEMA	KON	KON	4451
9	MAL	Malaysia	MAL	MAL	6288
10	NZE	New Zealand	NZE	NZE	4462
11	TAI	Taiwan	TAI	TAI	4463
12	THI	Thailand	THI	THI	5684

Miscellaneous Table 204 – Manual Hold Reasons

This table holds the manual hold reasons used on Sales Orders. The REGULATORYHOLD value is required by *Procession* for use with the State/Province Registration feature.

Table ★ Title Dependency table

LIST OF VALUES

	Code	Title	Short title	Allocate	Access code
1	LATE	Late	Late	No	
2	MANUA	Manual	Manual	No	
3	REGUL	Regulatory Hold	Rgltry Hold	No	
4					

OPTION

Miscellaneous Table 4851 – SDS Locale

MISCELLANEOUS TABLE

Table *	Description	Dependency table
4851	SDS Locale	

LIST OF VALUES

5 Results Display: 5

	Code	Description	Short description	Sequence	Composite
1	AUSTRALIA	Australia	Australia	3	No
2	EU	European Union	E.U.	2	No
3	JAPAN	Japan	Japan	4	No
4	KOREA	Korea	Korea	5	No
5	USCANADA	U.S.A & Canada	US/Canada	1	Yes

The SDS Locale table has two purposes:

1. Defines the different SDS formats. An SDS can be defined as locale-specific. The format of the SDS can be specified based upon the locale. Each country may have slightly different rules regarding the SDS. Defining an SDS to be locale-specific allows the SDS to be adjusted for the rules of that country or locale.
2. Defines the different hazard classification authorities. There are 11 different hazard classification authorities in the LOLI database. These authorities are different global government agencies which publish hazard classification ratings on chemicals. When using the Import Chemical Data feature, only hazard classifications from locales specified in this table will be imported.

Procession supports a maximum of 9 locales in this table.

The fields in this table are:

- **Code** –The Locale ID.
- **Description**- Description of the Locale.
- **Short Description**- This description will appear in the column headers of the hazard classification grids on the CAS Maintenance and R&D Formula features.
- **Sequence**- Dictates the order in which the locales should show in the hazard classification grids.
- **Composite**- If marked as Yes, then the hazard classification data for this locale will be a composite of all 9 of the locales, with the most hazardous classification being returned.

Miscellaneous Table 4852 – SDS Toxicological Test Type

Table *
Description
Dependency table

List of values

6 Results Display: 50

		Code		Description	Sho...
1	<input type="button" value="☰"/>	EC50	<input type="button" value="Q"/>	50% maximal effective concen.	<input type="button" value="☰"/> EC5 <input type="button" value="☰"/>
2	<input type="button" value="☰"/>	LC50	<input type="button" value="Q"/>	Lethal Concentration for 50%	<input type="button" value="☰"/> LC5 <input type="button" value="☰"/>
3	<input type="button" value="☰"/>	LD50	<input type="button" value="Q"/>	Lethal Dose for 50% of group	<input type="button" value="☰"/> LD5 <input type="button" value="☰"/>
4	<input type="button" value="☰"/>	NOECINHIB	<input type="button" value="Q"/>	growth inhibition NOEC	<input type="button" value="☰"/> NOI <input type="button" value="☰"/>
5	<input type="button" value="☰"/>	NOECMORT	<input type="button" value="Q"/>	mortality NOEC	<input type="button" value="☰"/> NOI <input type="button" value="☰"/>
6	<input type="button" value="☰"/>	TLM	<input type="button" value="Q"/>	Threshold Limit, median	<input type="button" value="☰"/> TLM <input type="button" value="☰"/>
7	<input type="button" value="☰"/>		<input type="button" value="Q"/>		<input type="button" value="☰"/> <input type="button" value="☰"/>

Miscellaneous Table 4853 – SDS Toxicological Species

Table *

Description:

Dependency table:

List of values

31 Results Display: 50

	Code	Description	Sho...	Description2
1	ARTEMIA	Artemia salina - Nauplii	Arte	salina-Nauplii
2	BLUEGILL	bluegill	blu	
3	BRACHYDANIORERIO			
4	BROOKTROUT	brook trout	bro	
5	COTURNIXCOTURNIXJAPO			
6	CRANGON	Crangon crangon	crar	
7	CYPRINUSCARPIO			
8	DAPHNIAMAGNA			

Miscellaneous Table 4854 – SDS Toxicological Exposure Routes

Table *

Description:

Dependency table:

List of values

	Code	Description	Sho...
1			
2	DERMAL		
3	INHALATION		
4	ORAL		
5			

Miscellaneous Table 4855 – SDS Class of Species

Table * 4855 Description: SDS Class of Species

List of values

	Code	Description	Sho...
1	ALGAE	Toxicity to algae	alg
2	CRUSTACEANS	Crustaceans	Cru
3	FISH	Toxicity to fish	fish
4	INVERTEBRATE	Toxicity to invertebrates	inve

Miscellaneous Table 4856 – Exposure LOLI List

MISCELLANEOUS TABLE

Table * 4856 Description: Exposure LOLI List Dependency table

LIST OF VALUES

10 Results Display: 5

	Code	Description	Country	Short description	Exposure Typ	LOLI Update?	LISTID
1	ACGIH	Threshold Limit Value				Yes	322
2	AU1	Australia - O.E.S. - TW	AU			No	0
3	CA1	Ontario - O.E.L TWA	CA			No	0
4	CA2	Quebec-O.E.L. TWA	CA			No	0
5	CA3	Alberta-O.E.L. TWA	CA			No	0

Miscellaneous Table 4857 – Exposure LOLI Mapping

Table * 4857 Description: Exposure LOLI Mapping Dependency table

List of values

24 Results Display: 50

	Code	Description	Sho...	Country	Exposure Typ	LOLI Update	LOLI Id
1	ACGIH	Threshold Limit Values -TLV-TW			ACGIH TLV	Yes	322
2	AIHA	AIHA - WEELS - TWAs			AIHA - WEELS - T	No	401
3	AU1	Australia O.E.S. TWAs		AU	AUSTRALIA	No	353
4	CA1	Canada-Ontario - O.E.L TWAs		CA	ONTARIO	Yes	531
5	CA10	CA-Northwest Territories-O.E.L		CA	NORTHWEST TER	No	1703

The LOLI list is used to define the exposures that will be updated from the LOLI integration. This table maps the **Procession** Exposure code (Exposure Type – See [Local Menu 4857](#)) to the LOLI id.

Miscellaneous Table 4859 –Hazard Classifications

The Hazard Classifications table contains the different hazard classifications that are listed in CAS Maintenance and in R&D Formulas.

This table has fields for mapping LOLI lists when a LOLI subscription is used for updating chemical data. This table contains 9 Locale fields, which allows the mapping of up to 9 different locales or authorities for the hazard classifications.

This table also contains value fields (Value 1 through 8). These value fields controls what values can be entered when classifying a hazard on a CAS record or on an R&D Formula record.

MISCELLANEOUS TABLE

Table * 4859 Description Hazard Categories/Classificati Dependency table

LIST OF VALUES

Code	Description	Loc5 List ID	SDS Local	Loc4 List ID	Hazard Class	Short description	EPA Hazard	VALUE1	VALUE2	VALUE3	VALUE4	VALUE5	VALUE6	VALUE7	VALUE8	VALUE9
1 ACUTO	Acute Toxicity - Dermal	3525		2417	Health	Acute Tox.	ACUTE	1	2	3	4					
2 ACUTE	Acute Toxicity	0		0	Health	Acute Tox.	ACUTE	1	2	3	4					
3 ACUTI	Acute Toxicity - Inhalation	4293		2416	Health	Acute Tox.	ACUTE	1	2	3	4					
4 ACUTO	Acute Toxicity - Oral	3523		2418	Health	Acute Tox.	ACUTE	1	2	3	4					
5 AQUAA	Acute Toxicity-Aquatic	3516		2403	Environment		ACUTE	1	2	3						

Popup View

Code *	ACUTO	VALUE1	1	VALUE7		Loc1 List ID	3178
Description	Acute Toxicity - Dermal	VALUE2	2	VALUE8		Loc2 List ID	3178
Short description	Acute Tox.	VALUE3	3	SHORTORD		Loc3 List ID	6391
Hazard Class	Health	VALUE4	4	Short Desc 2		Loc4 List ID	2417
EPA Hazard	ACUTE	VALUE5		Short Desc 3		Loc5 List ID	3525
SDS Local		VALUE6		Type Hazard	Physical Hazards	LOLI Update	Yes

Miscellaneous Table 4860 –SDS Phrases Condition Type

Table *

Description

Dependency table

List of values

	Code	Description	Sho...	Type
1	CLASS	GHS Classification		
2	HAZ	Hazard Phrase		
3	PREC	Precautionary Phrase		
4	PROP	Property		
5				

Miscellaneous Table 4861 –SDS GHS Classifications

Table *

Description

List of values

9 Results Display: 50

	Code	Description	Sho...
1	COMP	Compressed Gas	
2	CORR	Corrosive	
3	ENVIR	Environmental Damage	
4	EXPL	Explosive	
5	FLAM	Flammable	
6	HEALT	Health Hazard	
7	IRRI	Irritant	
8	OXID	Oxidizing	
9	TOXI	Toxic	
10			

Appendix 3 – Parameter Setup

The following is a list of new **Procession** parameters that may be changed as desired. Parameter values can be set by navigating to Setup → General Parameters → Parameter Values

- **XJBPTYH2O** – H2O Density Basis – Users can adjust this parameter if they wish to use a different density of water for formula calculations. The default for this parameter is **8.3452**.
- **XJBPTYTYP** – Product DTY Value Type – This parameter is used to declare the value set in the Product Density field. The default for the parameter is **Specific Gravity**.
- **XJBPTYUNT** – Density Units – This parameter is used to declare which unit the Density is calculated in. This parameter is used on the formula screen. The default for this parameter is **lbs/gal**.
- **XJBPTMWTYP** – Item Weight Type – This is used on the Bill of Lading Totals Tab. Users may decide if they wish to use Gross weights or Net weights. The default of this parameter is **NET**.
- **XJBPTPROPSHP** – Proper Shipping Update – This parameter is used to determine if users wish to update Proper Shipping Names on Products, Bill of Lading documents, or in both places. The default for this parameter is **Product**.
- **XJBPTMUPD** – Update Product From SDS?
 - a. Yes – Indicates that when an SDS is saved, the product record will be updated with the GHS, properties, and regulatory information from the SDS. This setting keeps the product in sync with the latest SDS revisions.
 - b. No – The product is not updated from the SDS when the SDS is saved.

All > Setup > General parameters

Parameter values

Chapter: XJB
Procession by Provenio

Legislation: _____

Company: _____

Site: _____

Group: XJB
Procession by Provenio

12 Results Display: 20

	Parameter	Description	Value	Set ...	Level
1	XJBBOLSHNM	Use proper ship for non-hazard	Yes	Q	Folder
2	XJBPTYH2O	H2O Density Basis	8.3485	Q	Folder
3	XJBPTYTYP	Product DTY Value Type	S. Gravity	Q	Folder
4	XJBPTYUNT	Density Units	lbs/gal	Q	Folder
5	XJBPTMUPD	Update Product from SDS?	Yes	Q	Folder
6	XJBPTMWTYP	Item Weight Type	GROSS	Q	Folder
7	XJBNUTRUNT	Display Potency	Per mg	Q	Folder
8	XJBPTPROPSH	Proper Shipping Mass Update	Product	Q	Folder
9	XJBQCSPECS	QC Results-Tech Sheet to use	Ask	Q	Folder
10	XJBRDCLCNW	R&D Calculate Equations Cntrl	ONDEMAND	Q	Folder
11	XJBREVDIG	Formula Revision Digits	3	Q	Folder
12	XJBREVPRE	Formula Revision Prefix	-REV-	Q	Folder
13				Q	

Appendix 4 – Hazard Rules Setup

The U.N. publishes standardized bridging rules for classifying hazards in a mixture. However, some of these rules can vary by country or locale.

Procession lists the rules that it used in classifying hazards in the Hazard Rule feature. This feature can be accessed from the menu path **Procession**→**Regulatory Control**→**Maintenance/Setup**→**Hazard Rules**.

An example of a hazard rule that can vary by locale is the STOT-Single exposure as shown below.

Table 3.8.2: Cut-off values/concentration limits of ingredients of a mixture classified as a specific target organ toxicant that would trigger classification of the mixture as Category 1 or 2^a

Ingredient classified as:	Cut-off/concentration limits triggering classification of a mixture as:	
	Category 1	Category 2
Category 1 Target organ toxicant	≥ 1.0% (note 1)	1.0 ≤ ingredient < 10% (note 3)
	≥ 10% (note 2)	
Category 2 Target organ toxicant	--	≥ 1.0% (note 4)
		≥ 10% (note 5)

^a This compromise classification scheme involves consideration of differences in hazard communication practices in existing systems. It is expected that the number of affected mixtures will be small; the differences will be limited to label warnings; and the situation will evolve over time to a more harmonized approach.

Source:

https://www.unece.org/fileadmin/DAM/trans/danger/publi/ghs/GHS_presentations/English/health_en_v_e.pdf

Each of the bridging rules in **Procession** is visible in the Hazard Rules feature. This feature includes the ability to define rules that are specific to a locale. Note, if a locale-specific rule is setup for a hazard class, then similar rules must be setup for each locale for the same hazard class.

All > Procession > Regulatory Control Module > Maintenance/Setup

Procession-Hazard Rules Cancel ⓘ

37 Results Display: 20

	Hazard Class	Description	Locale	Sequence...	Notes	Category	Basis Category	Form	Operator	Lower %	Operator	Upper %
1	ADUTE	Acute Toxicity - Dermal		1		1	DERMALLD		>	0.000	<=	50.00
2	ADUTD	Acute Toxicity - Dermal		2		2	DERMALLD		>	50.000	<=	200.00
3	ADUTD	Acute Toxicity - Dermal		3		3	DERMALLD		>	200.000	<=	1000.00
4	ADUTD	Acute Toxicity - Dermal		4		4	DERMALLD		>	1000.000	<=	2000.00
5	ADUTI	Acute Toxicity - Inhalation		1		1	INHALATIONLD	Gas	>	0.000	<=	100.00
6	ADUTI	Acute Toxicity - Inhalation		2		2	INHALATIONLD	Gas	>	100.000	<=	500.00
7	ADUTI	Acute Toxicity - Inhalation		3		3	INHALATIONLD	Gas	>	500.000	<=	2500.00
8	ADUTI	Acute Toxicity - Inhalation		4		4	INHALATIONLD	Gas	>	2500.000	<=	20000.00
9	ADUTI	Acute Toxicity - Inhalation		1		1	INHALATIONLD	Vapor	>	0.000	<=	0.50
10	ADUTI	Acute Toxicity - Inhalation		2		2	INHALATIONLD	Vapor	>	0.500	<=	2.00
11	ADUTI	Acute Toxicity - Inhalation		3		3	INHALATIONLD	Vapor	>	2.000	<=	10.00
12	ADUTI	Acute Toxicity - Inhalation		4		4	INHALATIONLD	Vapor	>	10.000	<=	20.00
13	ADUTI	Acute Toxicity - Inhalation		1		1	INHALATIONLD	Dust/mist	>	0.000	<=	0.05
14	ADUTI	Acute Toxicity - Inhalation		2		2	INHALATIONLD	Dust/mist	>	0.050	<=	0.50
15	ADUTI	Acute Toxicity - Inhalation		3		3	INHALATIONLD	Dust/mist	>	0.500	<=	1.00
16	ADUTI	Acute Toxicity - Inhalation		4		4	INHALATIONLD	Dust/mist	>	1.000	<=	5.00
17	ADUTO	Acute Toxicity - Oral		1		1	ORALLD		>	0.000	<=	5.00
18	ADUTO	Acute Toxicity - Oral		2		2	ORALLD		>	5.000	<=	50.00
19	ADUTO	Acute Toxicity - Oral		3		3	ORALLD		>	50.000	<=	300.00
20	ADUTO	Acute Toxicity - Oral		4		4	ORALLD		>=	300.000	<=	2000.00

Appendix 5 - Global Harmonization Data Library

Procession includes a library to both the U.N. and E.U. hazard and precautionary statements. The original library is available in English and French, with the ability to add additional languages. **Procession** provides a flexible interface which allows companies to add:

- New GHS phrases, as they become available
- Custom phrases
- Additional languages

GHS Hazard Statements

Procession → Regulatory Control Module → SDS Phrase Setup → GHS Hazard Phrases.

All > Procession > Regulatory Control Module > SDS Phrase Setup

Procession-GHS Hazard Phrases

338 Results Display: 20 1 2 3 4 5 6 ... 17

	Code	Compan...	Phrase	Language	Haz...
1	EUH001	No	Explosive when dry.	ENG	Pt
2	EUH001	No	Explosif à l'état sec.	FRA	Pt
3	EUH001	No	Explosivo en estado seco.	SPA	Hi
4	EUH006	No	Explosive with or without contact with air.	ENG	Pt

The fields on this screen are:

- **Code** – Hazard Code. The U.N. codes start with “H” and the E.U. codes start with “EUH”. The first number of each code determines the hazard type
 - 2 – Health Hazard
 - 3 – Environmental Hazard

- 4 – Physical Hazard
- **Company Specific** – If set to “Yes”, then user will be prompted to check the phrase text whenever the hazard code is used. This is used for codes where the phrase has multiple options in the text or when the phrase is incomplete. An example is shown below:

43	EUH208	Yes	Contains <name of sensitising substance>. May produce an allergic reaction.	ENG	Environmei
44	EUH208	Yes	Contient <nom de la substance sensibilisante>. Peut produire une réaction allergiq	FRA	Environmei

- **Phrase** – Text phrase which will appear on the SDS and labels.
- **Language** –Language of the phrase.
- **Hazard Type** – These are the categories of hazard statements. The hazard type should match the first number designation described in the code field definition above.

GHS Precautionary Statements

Procession →Regulatory Control Module→SDS Phrase Setup → GHS Precautionary Phrases.

All > Procession > Regulatory Control Module > SDS Phrase Setup

Procession-Precautionary

421 Results Display: 20 1 2 3 4 5 6 ... 22

	Code	Com...	Phrase	Language	Statement Type
1	P101	Ni	If medical advice is needed,have product container or label at hand.	ENG	General
2	P101	Ni	En cas de consultation d'un médecin, garder à disposition le récipient ou l'étiquette	FRA	General
3	P101	Ni	Si se necesita consejo médico, tener a mano el envase o la etiqueta.	SPA	General
4	P102	Ni	Keep out of reach of children.	ENG	General

Pre-cautionary phrases are setup in the same manner as hazard phrases and share mode of the same fields.

One distinction between hazard and precautionary phrases is that a precautionary phrase may be a combination of several phrases. A combination should be entered as follows with no spaces:

CODE1 + “+” (Plus Sign) + CODE2

Examples of combined phrases are shown below:

55	P235+P410	Ni	Keep cool. Protect from sunlight.	ENG	Prevention
56	P235+P410	Ni	Tenir au frais. Protéger du rayonnement solaire	FRA	Prevention
57	P235+P410	Ni	Consevar en un lugar fresco. Proteger de la luz del sol.	SPA	Prevention

The fields on this screen are:

- **Code** – This is the OSHA determined hazard code. Typically, precautionary statements begin with the letter “P”. The first number of each code determines the hazard type
 - 1 – General

- 2 – Prevention
- 3 – Response
- 4 – Storage
- 5 – Disposal
- **Company Specific** – If set to “Yes”, then user will be prompted to check the phrase text whenever the pre-cautionary code is used. This is used for codes where the phrase has multiple options in the text or when the phrase is incomplete. An example is shown below:

11	P210	Yes	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	ENG	Prevention
12	P210	Yes	Tenir à l'écart de la chaleur, des surfaces chaudes, des étincelles, des flammes nues et de toute autre source d'inflammation. Ne pas fumer.	FRA	Prevention

- **Phrase** – phrase text
- **Language** –Language of the phrase.
- **Statement Type** – These are the categories of precautionary statements.

Appendix 6 – Regulations

Regulations

Procession → Regulatory Control Module → Maintenance/Setup → Regulations.

The Regulations feature is used to define regulations. **Procession** ships with many common regulations, but the user can add additional regulations as required. Once defined, regulations can be assigned to CAS numbers, products, and/or Safety Data Sheets.

Regulatory Code	Regulation Title	Section(s)	Regulatory Agency	Country/L.	State/Province	Import/Manufacturer	Threshold	Reportable Quantity (RQ) Threshold	On List	Inventory	Internal Only	Message if Required	Message if Not Req.	Message-Unspecified
1	AICS	Australian Inventory of Chemical Substances (AICS)	Australian Department of	AU	QL		100.0000	KG	150	Unspecified	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2	CAA13	Reactivity Factors for VOCs in Aerosol Coatings		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
3	CAA14	Greenhouse Gases (GHG) - Global Warming Potent		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
4	CAA15	Accidental Release Prevention - Toxic Substances		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
5	CAA16	Accidental Release Prevention - Flammable Substa		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
6	CAA20	Volatiles Organic Compounds (VOCs) in SODMI		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
7	CAA21	SNAP Program Listing of Substitutes for ODSs		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
8	CAA22	VOCs with Negligible Photochemical Reactivity		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
9	CAA23	National Secondary Ambient Air Quality Standards		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
10	CAA24	National Primary Ambient Air Quality Standards		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
11	CAA25	Greenhouse Gases (GHG) - Findings under Section		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
12	CAA26	Urban HAPs List (Integrated Urban Strategy)		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
13	CAA27	Greenhouse Gases (GHG) - Mandatory Reporting of		US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
14	CANPRI	Canadian National Pollutant Release Inventory	Environment Canada	CA	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
15	CALPIS	California Proposition 65	OEHHA	US	QL	CA	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
16	CEPA	CEPA Toxic Substances List	Environment Canada	CA	QL		0.0000	CL		Unspecified	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
17	CERCL	CERCLA SECTIONS 102(a)(1)(3) HAZARDOUS SUBST	EPA	US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
18	CERCLA	Comprehensive Environmental Response, Compens	EPA	US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
19	CRACA	California Right To Know Components		US	QL	CA	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
20	CRACA	Georgia Right To Know Components		US	QL	GA	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
21	CRAL	Illinois Right To Know Components		US	QL	IL	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
22	CRAMA	Massachusetts Right To Know Components		US	QL	MA	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
23	CRANJ	New Jersey Right To Know Components		US	QL	NJ	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
24	CRAPA	Pennsylvania Right To Know Components		US	QL	PA	0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		
25	CWA	Clean Water Act	EPA	US	QL		0.0000	CL		No	<input type="checkbox"/>	<input type="checkbox"/>		

Regulatory Code AICS	State/Province	<input checked="" type="checkbox"/> Inventory List	LOLI List ID 1234567890
Regulation Title Australian Inventory of Chemical Substances (AICS)	Import/Manufacture Limit 100,0000	<input type="checkbox"/> Internal Only	<input checked="" type="checkbox"/> LOLI Update?
Section(s)	Threshold/Limit Unit → KG	Message if Required	
Regulatory Agency Australian Department of the Environment	Reportable Quantity (RQ) Threshold 150	Message if Not Req.	
Country/Union → AU	On List Unspecified	Message-Unspecified	

The fields on a Regulation record are:

- **Regulatory Code** – Unique internal code for identifying the regulation.
- **Regulation Title** – Regulation description.
- **Section(s)** – Specifies if the regulation code applies to a specific section of a regulation or act.
- **Regulatory Agency** – Regulation’s governing body (A listing of agencies are found at

- Local Menu 4859 – Regulatory Agency)
- **Country/Union** –Country or Union, which enforces the regulation.
- **State/Province** – If the regulation is governed at the state or province level, this information can be specified here.
- **Import/Manufacture Limit** – Inventory receipt limit for a chemical, based upon the country’s inventory list. A requirement of the [Procession Regulation Reporting](#) feature is that a value must be entered for this column for any regulation that has limits. These limits can be further defined on the [CAS Master Regulations](#) tab for a specific chemical.
- **Threshold/Limit Unit** – Unit for the Import/Manufacture limit. This value should be either LB or KG. A consistent unit of measure is required in order to use the [Procession Regulation Reporting](#) feature.
- **Reporting Quantity (RQ) Threshold**– The maximum daily weight reporting threshold for the regulation. A requirement of the [Procession Regulation Reporting](#) feature is that a value must be entered for this column for any regulation that has limits. These limits can be further defined on the [CAS Master Regulations](#) tab for a specific chemical.
- **Reporting Required/On List** – Defines the regulation default of whether the regulation prints as “required” or “on list” on the SDS report. A value of “No” for this regulation on the SDS indicates that the regulation appears on the SDS as “Not Required” or “Not On List”. A value of “Unspecified” indicates that it has not been determined whether it is required to report this chemical for this regulation.
- **Inventory List**- Inventory list regulations are regulations listed on a specific country’s list of toxic chemicals. Regulations that are defined as inventory lists are automatically added to each CAS record that is created.

When defining the chemical composition for a product, a single regulation may appear on several components. Inventory list regulations display once per product and the “Reporting Required/On List” value is determined based upon whether any chemical component is defined as “Reporting Required/On List” in the CAS master.

On the regulation screen is an option to “Publish Inventory Lists” that can automatically add the inventory list regulations to product, SDS, and/or CAS records (see [Publish Inventory Lists](#) for more information).

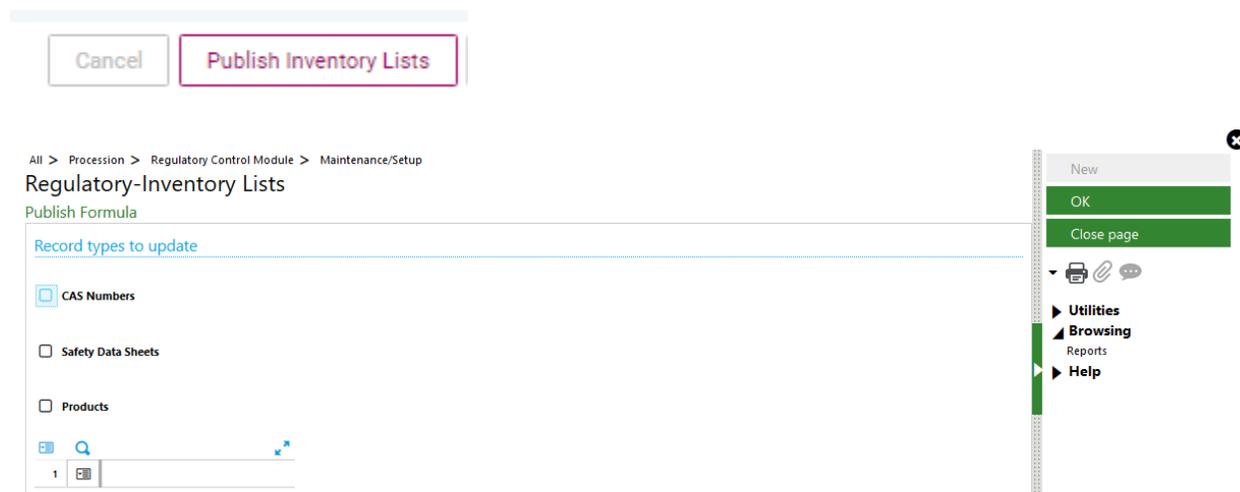
- **Message if Required** – This optional field defines what text will print on the SDS for this regulation when the “Reporting Required/On List” is “Yes” on the SDS. If this message is not defined, then only the regulation title will appear on the SDS. The “Message if Required” message can be up to 250 characters.
- **Message if Not Req.** – This optional field defines what text should display on the SDS report for this regulation when it is flagged as “No” for “Reporting Required/On List”. If this message is

not defined, then the regulation title will appear on the SDS followed by the text “Not Required”. The “Message if Not Req.” text can be up to 250 characters.

- **Message-Unspecified**– This optional field defines what text should display on the SDS report for this regulation when it is flagged as “Unspecified” for “Reporting Required/On List”. If this message is not defined, then the regulation title will appear on the SDS followed by the text “Unspecified”. The “Message-Unspecified” text can be up to 250 characters.
- **LOLI List ID** –Defines the LOLI list id for this regulation. This feature requires LOLI integration. If a regulation does not have a LOLI List Id defined, then that regulation will not be updated by the LOLI integration.
- **LOLI Update** – Controls if the regulation should be updated from the LOLI database. If this field is not checked, then the LOLI update will not occur for this regulation.

Publish Inventory Lists

The Publish Inventory Lists is an option on the Regulations window. This option will push all regulations that are marked as an Inventory List out to CAS records, Safety Data Sheets and/or Products. This feature is used when a new inventory list is added to the regulation table in order to publish the list.



Appendix 7 – LOLI Database Setup

This section provides information for setting up the **Procession** integration with the LOLI subscription.

Setup Initial CAS Data

Before using the Import Chemical Data feature for the first time, the list of CAS Numbers to import must be defined in the [CAS Maintenance](#) feature. The LOLI database contains over 420,000 CAS numbers, so populating this initial list allows the system to only import the data for the chemicals that are used in your company.

CAS numbers can be either manually added in the CAS Maintenance feature or imported using the **Procession** import template (XJBCAS). Refer to the **Procession** Setup & Technical Guide for more information about importing data in **Procession**.

Setup List Mappings

In the LOLI database, each distinct chemical has multiple identifiers, with the primary identifier being the CAS number. Each data point, such as a regulation, is stored in LOLI in a list. LOLI contains the following data:

- Over 420,000 CAS numbers
- Over 5,000 Lists
- Millions of data points (i.e. Combinations of CAS number and List)

Within LOLI, each CAS number may have data in some lists and not in others. Some CAS numbers will have data points in hundreds of lists while others will have data points in thousands of lists. Many of these lists are for global regulations that do not apply to most companies. Therefore, **Procession** provides the ability to narrow down the lists that will be imported by specifying the LOLI List Ids that will be imported. The LOLI List IDs can be mapped in the tables listed below.

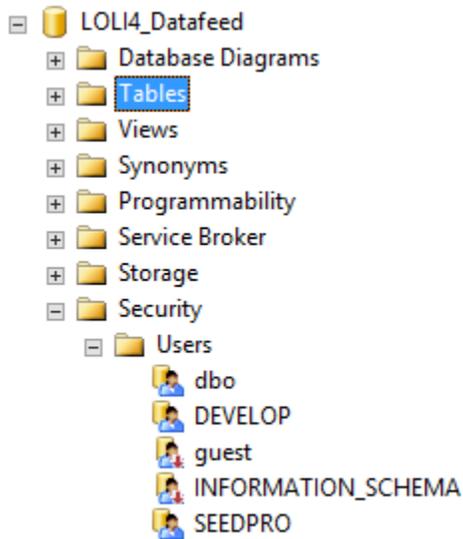
- [Miscellaneous Table 4848 – SDS Properties](#)
- [Miscellaneous Table 4849 – GHS LOLI List](#)
- [Miscellaneous Table 4856 – Exposure LOLI List](#)
- [Miscellaneous Table 4857 – Exposure LOLI Mapping](#)
- [Miscellaneous Table 4859 – Hazard Classifications](#)
- [Regulations](#)

Setup Locales

LOLI contains data from all over the world as well as 11 hazard classification authorities. These authorities are defined as locales in **Procession** and must be defined prior to using the Import Chemical Data feature the first time. See [Miscellaneous Table 4851 – SDS Locale](#) for information on setting up the locales.

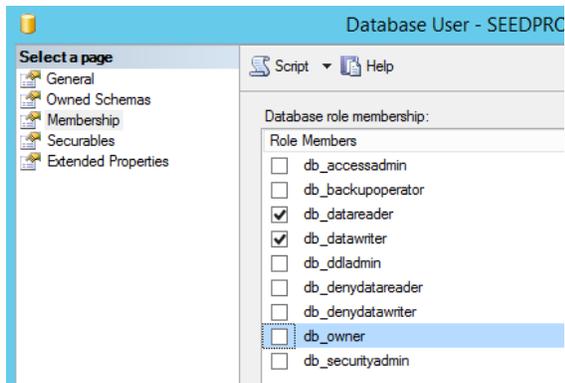
Setup Database

If using the LOLI database subscription option, the database should be installed onto the same SQL instance as Sage X3.



Each folder in Sage X3 will have its own SQL user. This user must be assigned to the LOLI database in SQL under the **LOLI Database** → **Security** → **User** menu.

This user should be given the Database role memberships shown below.



Setup API

Note: This feature is not available in Sage X3 PU9.

When using the LOLI web services, the web service must be configured in Sage X3 using REST web services, which can be accessed from the menu path **All** → **Administration** → **Administration** → **Web Services** → **Rest Web Services**.

REST Web Service LOLIDATA

Outgoing REST Web Service configuration

Name *
LOLIDATA

Base Url *
https://sandbox.chemadv.isr.io/chem/rest/v2

Content Type
 XML JSON

Authentication
 None Basic

Parameters
+

Key	Value
No data to display	

Headers
+

Key	Value
app_key	
app_id	82ffa9ce

To setup the LOLI web service call, setup the following parameters, which are provided with the LOLI subscription:

- Base URL – Web service URL
- App_key – Subscription key.
- App_Id – Application ID.

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