

HSM – Hazardous Substance Management based on Microsoft Dynamics™ NAV (Navision)

The *Hazardous Substance Management* or *GSM* provides a specific solution for the management of hazardous substances and dangerous goods. This software - based on *Microsoft Dynamics™ NAV (Navision)* - contains all the functionality and data required for a facility's product safety and safe transport related processes, especially important for enterprises highly dynamical in product development.

Since *HSM* is fully integrated into *Microsoft Dynamics™ NAV (Navision)* its data and objects are located in the *NAV* database (*SQL Server*). All operating processes can be mapped seamlessly within the system. The user interface completely corresponds to the *NAV* standards, of course.

Core functionality:

- Substance database
- Multilingual phrase catalogue
- Formulation management
- Flexible design of properties and views
- Report views (Safety Data Sheet, workplace instructions, technical data sheet, declarations of conformity etc.) predefined and/or user configurable
- Calculation of classification and labelling
- Dangerous goods classification and transport processing (documents for ADR, IMO, IATA)
- Configurable flowchart processor for further evaluations and calculations
- Research module for database wide evaluations
- Automatical Safety Data Sheet dispatch
- Region related versioning management
- Provision of label printing data

Experience

Long standing experience in the development of information systems and with the internal processes of the process industry as well as precise knowledge of the legislation on handling and transport of hazardous substances produced a piece of software which can be adapted to various demands thanks to its modular and parameter controlled design.

Integration

HSM is integrated into industry solutions for the chemical industry as well as for pharmaceuticals, cosmetics, food and food additives. The functions and data of the *HSM* module are used by production and storage up to shipment.

Integration means that all data are available throughout the system anytime. Thus double input and access to data, which are not up-to-date, are avoided. This leads to significantly better reliability of all product safety related processes and a considerably lower expenditure of time.

So for example recipes (= formulations) are entered only once and are then available for the calculations and reports required by hazardous substance legislation, for production processes, and for internal calculation. In shipment transaction the legally required documents like Safety Data Sheets (SDSs) and transport documents are compiled and created for all necessary languages. Dispatched SDSs are archived and logged with customer reference.

Information about reports created for a customer is directly accessible from the Customer card. Likewise properties and reports of a certain item may be called directly from the Item card.

To every delivery note you may get information on Safety Data Sheets, accompanying transport documents etc.

Flexibility

In the overall conception flexibility is maintained down to the level of data structures. The easy adaptability of the system to the enterprises' demands guarantees that peculiarities resulting from changing business requirements can be met. Adaptation to the permanently changing laws, directives, ordinances and regulations may be carried out quickly and without big expenditures. This means security for your investment, because *HSM* will keep pace with the growth of your enterprise and with the requirements of the legislator as well.

With *HSM* you have the possibility to map structures and properties of complex contents of information far beyond the subjects mentioned here.

Flexibility of a program also means, that new requirements may implemented not necessarily by permanent adaptation of the software as such, but also by a change in data design.

Thus one can adapt and configure properties, data input views and reports. The FCC (Flow Chart Processor) even allows the configuration of one's own calculations and evaluations.

Safety Data Sheet

When creating a new sales order in *NAV*, the languages necessary for the destination region are determined, and a regional (and multilingual if necessary) version of the Safety Data Sheet is created, printed and stored. The date of shipment of the item and its assigned SDS will be logged for monitoring purposes - in accordance with the 12 Months Rule establishing the commitment of shipping a new SDS on relevant changes.

Edit - HSM Report Creat... - [X] [Close]

HOME ACTIONS CRONU... ?

Create Report Process

General

Substance No.: FP-4711-A

Viewcode: SDS

Language Code: FR

Region Code: CH

Address Code: PSS

Fileformat: RTF

Show document: ☒

General Close

Figure 1: Report creation (Safety Data Sheet for Switzerland in French)

Fiche de données de sécurité conforme à règlement (CE) no 1907/2006

Nom commercial: Peinture Anticorrosive Rouge

Número de la matière: FP-4711-A Version: 2 / CH Date de révision: 18.06.15
remplace la version: 1 / CH Date d'impression 20.06.15

SECTION 1: Identification de la substance/du mélange et de la société/l'entreprise

1.1. Identificateur de produit
Peinture Anticorrosive Rouge

1.2. Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées

Utilisations identifiées
SU3 Utilisations industrielles: Utilisations de substances en tant que telles ou en préparations sur sites industriels
PC9a Revêtements et peintures, solvants, diluants
PROC10 Application au rouleau ou au pinceau

1.3. Renseignements concernant le fournisseur de la fiche de données de sécurité

Adresse/fabricant
Prosisoft GmbH
Otto-von-Guericke-Ring 3
DE-63205 Wiesbaden
No. de téléphone +49 (0) 6122 7268 550
No. Fax +49 (0) 6122 7268 551
Service émetteur / téléphone Service de sécurité des produits
Adresse email de la personne info@prosisoft.de
responsable pour cette FDS

1.4. Numéro d'appel d'urgence
Pendant les heures de bureau: +49 (0) 6122 7268 550
Centre Suisse d'Information Toxicologique: 145

SECTION 2: Identification des dangers

2.1. Classification de la substance ou du mélange
Classification (règlement (CE) no 1272/2008)

Flam. Liq. 3	H226
Acute Tox. 4	H312
Acute Tox. 4	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Aquatic chronic 2	H411

Pour l'explication des abréviations voir section 16.

2.2. Éléments d'étiquetage

Étiquetage selon le règlement (CE) no 1272/2008

Pictogrammes de danger

Mention d'avertissement
Danger

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Mentions de danger

H226	Liquide et vapeurs inflammables.
H312	Nocif par contact cutané.
H332	Nocif par inhalation.
H315	Provoque une irritation cutanée.
H319	Provoque une sévère irritation des yeux.
H411	Toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

Conseils de prudence

P210	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.
P260	Ne pas respirer les poussières/fumées/gaz/brouillards/vapeurs/aérosols.
P280	Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.
P301+P310	EN CAS D'INGESTION: Appeler immédiatement un CENTRE ANTIPOISON ou un médecin.
P304+P340	EN CAS D'INHALATION: Transporter la personne à l'extérieur et la maintenir dans une position où elle peut confortablement respirer.
P305+P351+P338	EN CAS DE CONTACT AVEC LES YEUX: Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

Composants dangereux déterminants pour l'étiquetage (règlement (CE) 1272/2008)

contient Xylène, Solvant napha aliphatique moyen (pétrole); Kérosène de distillation directe; Ethylbenzène

2.3. Autres dangers
Pas de dangers particuliers à mentionner.

SECTION 3: Composition/informations sur les composants

Composants dangereux (règlement (CE) no 1272/2008)

Solvant napha aliphatique moyen (pétrole); Kérosène de distillation directe

No. CAS	64742-98-7
No. EINECS	265-191-7
Concentration	>= 10 < 25 %

Classification (règlement (CE) no 1272/2008)

Asp. Tox. 1	H304
STOT RE 1	H372

Annotations additionnelles:
CLP Regulation (EC) No 1272/2008, Annex VI, Notent H

Xylène

No. CAS	1330-20-7
No. EINECS	215-535-7
Concentration	>= 10 < 18 %

Classification (règlement (CE) no 1272/2008)

Skin Irrit. 2	H315
Flam. Liq. 3	H226
Acute Tox. 4	H332
Acute Tox. 4	H312
Eye Irrit. 2	H319
STOT SE 3	H335

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Figure 2: Report page view (SDS for Switzerland in French)

Automatical Safety Data Sheet dispatch

Via processing a stack all Safety Data Sheets for a certain customer including a cover sheet may be created and mailed. By this procedure you can provide your customers with all necessary SDSs periodically. In *HSM* the prerequisites for electronic mailings are already given too.

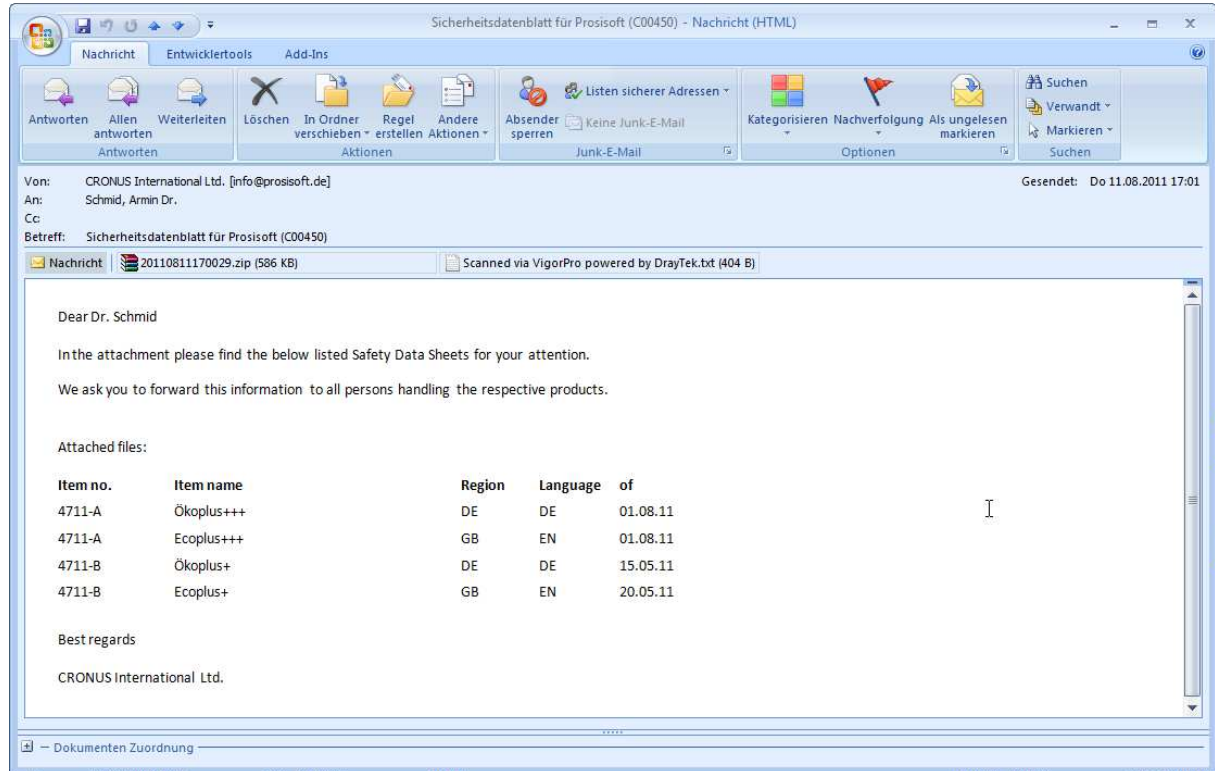


Figure 3: Automatic e-mail SDS distribution (Cover letter with attached zip file)

Substance data

In *HSM* substance data of chemical substances or mixtures, raw materials, intermediates and products is entered and maintained. This data form the basic pool of information and is accessed by various functions. For managing this information the module offers a number of comprehensive views and evaluations.

Several items of the *NAV* ERP part may be assigned to a certain substance entry whose chemical characterisation is located in the substance data base. The chemical substance relevant formulation is taken over. Based on this information the classification of the related mixtures can be determined.

Edit - HSM Substance - FP-4711-A · Anti Corrosion Paint Red

HOME ACTIONS NAVIGATE CRONUS AG ?

View Edit New Delete Manage Properties Copy Calculation Report Creation Substance Descriptions Formulation Where-Used List Process Structure Ingredients Version Notes Links Refresh Clear Filter Go to Previous Next Page

FP-4711-A · Anti Corrosion Paint Red

General

No.: FP-4711-A ... Substance Type: Substance
 Description: Anti Corrosion Paint Red Master Substance No.: M-033
 Description 2: Master Description: Master TCFN liquid
 Substance Type Code: SUBSTANCE Formulation No.: R-4711-02
 Used in Formulation: No

Hazardous Substance
 Dangerous Good
 Basic Substance
 Listed Substance
 Identifier
 History

Links

Link Address	Description
R:\Share\Labor...	Test report 4711.docx

Notes

OK

Figure 4: Substance card

Formulations

In *HSM* the composition of product mixtures is stored in a formulation, which normally results from the raw materials contained in the production BOM (bill of materials).

Edit - HSM Formulations - R-4711-02 · Anti Corrosion Paint Red

HOME ACTIONS NAVIGATE CRONUS AG ?

R-4711-02 · Anti Corrosion Paint Red

General

No.: R-4711-02 ... Status: Certified
 Description: Anti Corrosion Paint Red Search Name: ANTI CORROSION PAINT RED

HSM Formulation Lines

Find Filter Clear Filter

Type	No.	Substance Desc.	Share %	CAS No.	Index No.
Substance	R-00001	Alkyd Resin AR2000	35,000		
Substance	R-00002	Petroleum	17,500		
Substance	R-00003	Special pigment mixture	29,000		
Substance	R-00004	Special Additive XY	3,000		
Substance	R-00005	Xylene solution	15,500		

Total 100,000

History 19.06.2015 16:25:52 ARMIN 23.06.2015 13:57:08

Links

Link Address	Description
U:\Purchase\Suppli...	SDS Special Additive
U:\Purchase\Suppli...	SDS Special Pigmen
U:\Purchase\Suppli...	SDS AR2000.pdf

Notes

OK

Figure 5: Formulation

Formulation structure and ingredients

Since its ingredients often consist of other substance entries available in the system, the formulation can be displayed resolved on several levels, of course. Multi-staged formulations are displayed in a tree structure with the direct und indirect percentages.

Edit - R-4711-02 Anti Corrosion Paint Red - Structure

HOME CRONUS AG

HSM Formulation Structures

Type to filter (F3) Substance No. No filters applied

Substance No.	Description	Substance Desc.	CAS No.	EC No.	Index No.	Direct Share % Needed	Indirect Share % Needed
▲ R-00001	Binder	Alkyd Resin AR2000				35,000	
BS-00001		Alkyd resin				65,000	22,750
LS-2456-00		Solvent naphtha (Petroleum), me...	64742-88-7	265-191-7	649-405-00...	20,000	7,000
LS-5040-00		Trizinc bis(orthophosphate)	7779-90-0	231-944-3	030-011-00...	10,000	3,500
▲ R-00005		Xylene solution				5,000	1,750
LS-3738-00		Xylene	1330-20-7	215-535-7	601-022-00...	80,000	1,400
LS-1665-00		Ethylbenzene	100-41-4	202-849-4	601-023-00...	20,000	0,350
▷ R-00002	Solvent	Petroleum				17,500	
▷ R-00003	Pigment	Special pigment mixture				29,000	
▷ R-00004	Additive	Special Additive XY				3,000	
▷ R-00005	Solvent	Xylene solution				15,500	

OK

Figure 6: Formulation structure

In a complex formulation a basic chemical substance may be contained in different directly added ingredients. In order to determine the content of a substance in the entire formulation the formulation can be displayed completely resolved, as shown below. This listing of all basic substances (ingredients) forms the basis of calculations.

Edit - R-4711-02 Anti Corrosion Paint Red - Ingredients

HOME CRONUS AG

HSM Formulation Structures

Type to filter (F3) Substance No. No filters applied

Substance No.	Description	Substance Desc.	CAS No.	EC No.	Index No.
BS-00001		Alkyd resin			
BS-00002		Pigment Red 194	4216-02-8	229-442-4	
BS-00003		Pigment Red 11	6535-48-4	229-442-4	
LS-1665-00		Ethylbenzene	100-41-4	202-849-4	601-023-00-4
LS-2456-00		Solvent naphtha (Petroleum), me...	64742-88-7	265-191-7	649-405-00-X
LS-2529-00		2-Methoxy-1-methylethyl acetate	108-65-6	203-603-9	607-195-00-7
LS-3738-00		Xylene	1330-20-7	215-535-7	601-022-00-9
LS-479-00		n-Butyl acetate	123-86-4	204-658-1	607-025-00-1
LS-5040-00		Trizinc bis(orthophosphate)	7779-90-0	231-944-3	030-011-00-6
LS-5041-00		Zinc oxide	1314-13-2	215-222-5	030-013-00-7

OK

Figure 7: Ingredients

Calculation of classification and labelling

Manually calculating the classification and labeling not only means high expenditure of time, but also requires the current data and legally prescribed regulations anytime.

HSM contains a program module which runs these calculations. From the product's ingredients and its properties the following items (and some other things) will be derived and stored: classification and labelling according to hazardous substances legislation, references to workplace exposure limits, hazardous ingredients to be mentioned on the Safety Data Sheet and label data.

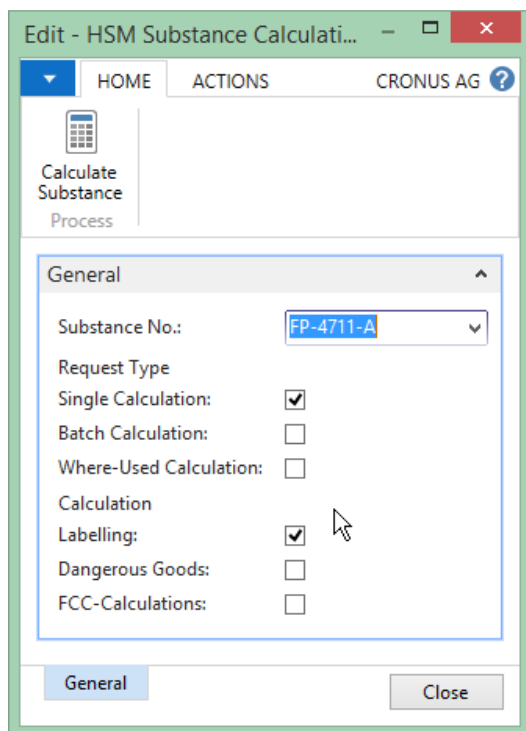


Figure 8: Calculation functions

The calculations can be executed immediately or put on a stack for later batch processing as a so-called request. There may be generated also a stack for recalculation of all recipes contain the corresponding substance (Where-used calculation).

The calculated results are used in the prepared reports. Because of changes in legislation, e.g. in the classification of ingredients, or a changed formulation the results of a new calculation may differ from the results of the previous one.

The newly calculated property values (Entry type: Calculation) are initially kept in the calculation buffer (see the following figure) and compared with the values already existing in the database (Entry). The Action column indicates what will occur when the results are written back into the database.

Entry Type	Property Description	Instance	Rele...	Attribute Description	Value	Text	Action
▶	Toxicity differential percentages	3/5	<input type="checkbox"/>				Skip
▶	Toxicity differential percentages	4/5	<input type="checkbox"/>				Skip
▶	Toxicity differential percentages	5/5	<input type="checkbox"/>				Skip
▶	Master substance	1/1	<input type="checkbox"/>				Skip
▶	Shares of ingredients with unkno...	1/1	<input type="checkbox"/>				Skip
▲	Classification (EC-GHS)	1/8	<input checked="" type="checkbox"/>				Modify
Calculation			<input checked="" type="checkbox"/>	Hazard class	S250000060	2,6	
Calculation			<input checked="" type="checkbox"/>	Category	S250100180	FLAM. LIQ. 3	
Calculation			<input checked="" type="checkbox"/>	Hazard statement	S250200390	H226	
Entry			<input checked="" type="checkbox"/>	Hazard class	S250000060	2,6	
Entry			<input checked="" type="checkbox"/>	Category	S250100170	FLAM. LIQ. 2	
Entry			<input checked="" type="checkbox"/>	Hazard statement	S250200380	H225	
▶	Classification (EC-GHS)	2/8	<input type="checkbox"/>				Skip
▶	Classification (EC-GHS)	3/8	<input type="checkbox"/>				Skip

Figure 9: Display of calculation results on EU hazardous substance classification (FLAM. LIQ.3 H226 to be modified to FLAM. LIQ.2 H225)

Also after acceptance with “OK”, it is still possible to modify calculation results in the property masks, e.g. by appending additional P-phrases. Company specific commitments can be considered manually this way, if they are not already implemented in the calculation configuration.

Apart from substance data, the calculations are based on numerous rule tables, which are looked up by the calculation functions. This allows quick adaptations and modifications of limit values and dependencies implemented because of legal prescriptions.

Dangerous goods classification

The classification of dangerous goods is based on a compilation of rules derived from ADR, IMDG Code and IATA. Based on transport data and additional physical and chemical data of the ingredients the classification of the product is calculated with respect to land-, sea-, and air transport.

The result contains complete classification profiles for each dangerous goods item, consisting of UN Number, Class, Packing group, Proper shipping name, quantity limits for the different transport modes. The determination of the classification profiles is based on the lists of dangerous goods as provided by the said regulations.

Based on the dangerous goods classification in the downstream shipment process exempted quantities and transport prohibitions for the different modes of transport can be determined. Starting from the classification profile the accompanying transport papers are created. These are the Dangerous goods transport document according to ADR, IMO- and IATA Declaration.

HSM Calculation Buffer							
HOME ACTIONS		CRONUS AG ?					
Entry Type	Property Description	Instan...	Rele...	Attribute Description	Value	Text	Action
Land transport ADR/R...	1/1		<input checked="" type="checkbox"/>				Modify
Calculation			<input checked="" type="checkbox"/>	Dangerous good key	DG1263A_III...	PAINT	
Calculation			<input checked="" type="checkbox"/>	Hazard Inducing Substance 1	LS-5040-00	Trizinc bis(orthophosphate)	
Calculation			<input type="checkbox"/>	Environmental labelling	S250300100	ENVIRONMENTALLY HAZARDOUS	
Entry			<input checked="" type="checkbox"/>	Dangerous good key	DG1993_III...	FLAMMABLE LIQUID, N.O.S.	
Entry			<input checked="" type="checkbox"/>	Hazard Inducing Substance 1	LS-2456-00	Solvent naphtha (Petroleum), mediu...	
Entry			<input checked="" type="checkbox"/>	Hazard Inducing Substance 2	LS-3738-00	Xylene	
Entry			<input type="checkbox"/>	Environmental labelling	S250300100	ENVIRONMENTALLY HAZARDOUS	
▷	Air transport ICAO/IA...	1/1	<input checked="" type="checkbox"/>				Modify
▷	Marine transport IMD...	1/1	<input checked="" type="checkbox"/>				Modify

OK Cancel

Figure 10: Display of dangerous goods classification (UN1993 to be modified to UN1263 after setting default to "Paint")

Edit - Posted Sales Shipment - 102043 · Maronegoce							
HOME ACTIONS NAVIGATE		CRONUS AG ?					
Track Package	Print...	Navigate	<div> <div>Transport document</div> <div>IMO Declaration</div> <div>IATA declaration</div> </div> Transport Documents				
102043 · Maronegoce							
General		102043	21245278	28.01.2016	1001	Notes	
Lines		Click here to create a new...					
Functions		Line	Find	Filter	Clear Filter		
Type	No.	Description	Location Code	Quantity	Unit of Measur...		
Item	70103	Farbe, rot	BLAU	20	CAN		
Item	70104	Farbe, grün	BLAU	10	CAN		
Invoicing							
Bill-to Customer No.:		21245278	Bill-to Post Code:		20200		
Bill-to Contact No.:		KT000013	Bill-to City:		CASABLANCA		
Bill-to Name:		Maronegoce	Bill-to Contact:		Mme. Fadoua AIT MOUSSA		
Bill-to Address:		21, Boulevard de la Nation	Department Code:		VERKAUF		
Bill-to Address 2:			Project Code:				
Shipping		20200	BLAU	28.01.2016		OK	

Figure 11: Generation of transport documents from Posted Sales Shipment card

Research module: Hazardous substance inventory

Enterprises are obliged to keep an inventory of all hazardous substances handled in the plant. With the HSM Research module the listings for products, intermediates and raw materials with the information prescribed by the legislator, such as hazardous substance name, classification or dangerous properties, volumes in the plant, working areas, where the hazardous substance is handled, etc. can be created.

Because of its integration into the ERP system *HSM* can generate this information on a daily basis at the push of a button. Of course evaluations related to the "Seveso III" Directive, for the REACH registration etc. are possible as well.

Safety Data Sheet View

The most important data collection view for product safety related items is called "EU Safety Data Sheet". Here you can enter data and assign phrases (text modules) to the substances' properties, which are arranged corresponding to the 16 main chapters of a Safety Data Sheet. Chapters, subchapters and the single input items can be modified and extended by the user.

The structure tree shown in Figure 12 can be supplemented or modified anytime. If one e.g. needs additional chapters within a certain view or if one needs an entirely new view, a modification of the software is not necessary. Thanks to this flexibility the user can meet all future challenges.

The values of each property are the result of calculations, entered manually or called by reference to a template substance (master), in which the substance- or product group-specific standards are stipulated, for example phrases for the Sections 4, 5, 6, etc.. The assignment of the appropriate master can be done automatically using the FCC calculations. Thus, a duly filled out SDS can be generated just on the basis of the calculation functions (which, in turn, may be triggered automatically).

Calculation Data View

In this data entry view important parameters are collected, which are necessary for the calculation of hazardous substance classification and labelling, as well as the dangerous goods classification, e.g. flash point, boiling point and vapor pressure data. Some of this information also can be found in the Chapter 09 of the EU SDS and may be edited there as well.

Regulations views

Via the views Regulations (maintain basic substance) and Regulations (formulation) the most fundamental data of listed and basic substances and mixtures can be entered.

Further views

Easy handling and high flexibility of the system allow the definition of further user- or workplace-related views, of which some are already pre-defined:

- Workplace instruction (Plant instruction)
- Data sheets according to the Detergents Regulation
- Data provision for label printing
- Product data sheet

More calculation and evaluation functions are easy to implement or already available. Examples: Danish MAL Code, heavy metal and VOC contents, comparison with inventory lists, i.e. information on whether all the ingredients for example are listed in the U.S. TSCA Inventory or whether no ingredient is listed in the ECHA Candidate List ("SVHC").

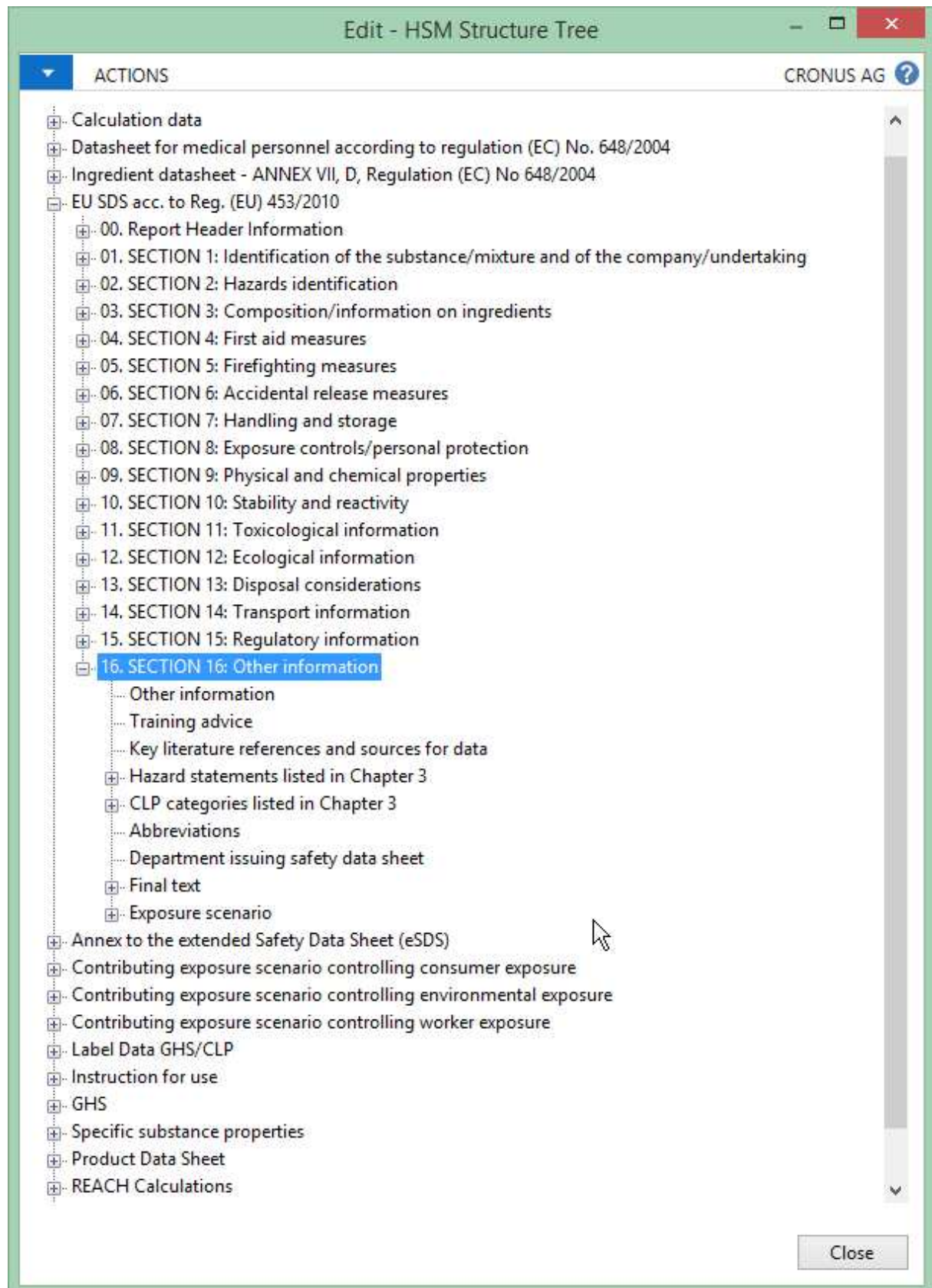


Figure 12: Structure tree for entering properties (with a selection of important views)

Self defined views and reports in accordance with company specific requirements, e.g. product descriptions (technical data sheets), instructions for use, declarations of conformity, certificates of analysis etc. are to be mentioned here as well.

Logistics / Shipment processing

In the course of shipment processing, all documents (Transport document, IMO- and/or IATA Declaration) are automatically requested, created and printed. The necessary substance and dangerous goods data are looked up directly in the substance database and issued on the delivery note.

Substance data

An important resource of a hazardous substance management system with its variety of functions is formed by legislation data, lists and regulations. The basic data, which are necessary especially for the calculation functions and the creation of SDSs are collected and maintained in *HSM*. A collection of basic data is provided by *Prosisoft*:

- Substance data according to Annex I of EC Directive 67/548/EEC resp. Annex VI of Regulation (EC) 1272/2008 (CLP)
- Workplace exposure limits for most European countries and the USA
- Lists of dangerous goods according to ADR, IMDG, IATA
- German List of water hazardous substances (WGK)
- VOC-substances (Swiss Incentive Tax, EU Solvent Directive, Decopaint Directive)
- Inventory lists like EINECS, TSCA, DSL/NDL, IECSC, AICS
- etc.

Text modules (phrases)

The output of documents can be made in numerous languages (currently 26 including Chinese). The standard system is delivered with phrases in German and English. Further languages may be added as single languages or as language packages. This makes all documents automatically available in the newly added languages.

By default, the user interface itself is available in German and English; here, too, other languages can be added.

The database may also be added anytime by customer specific phrases. By arrangement with *Prosisoft* it is possible to transfer such phrases into the standard catalogue (with corresponding translations).

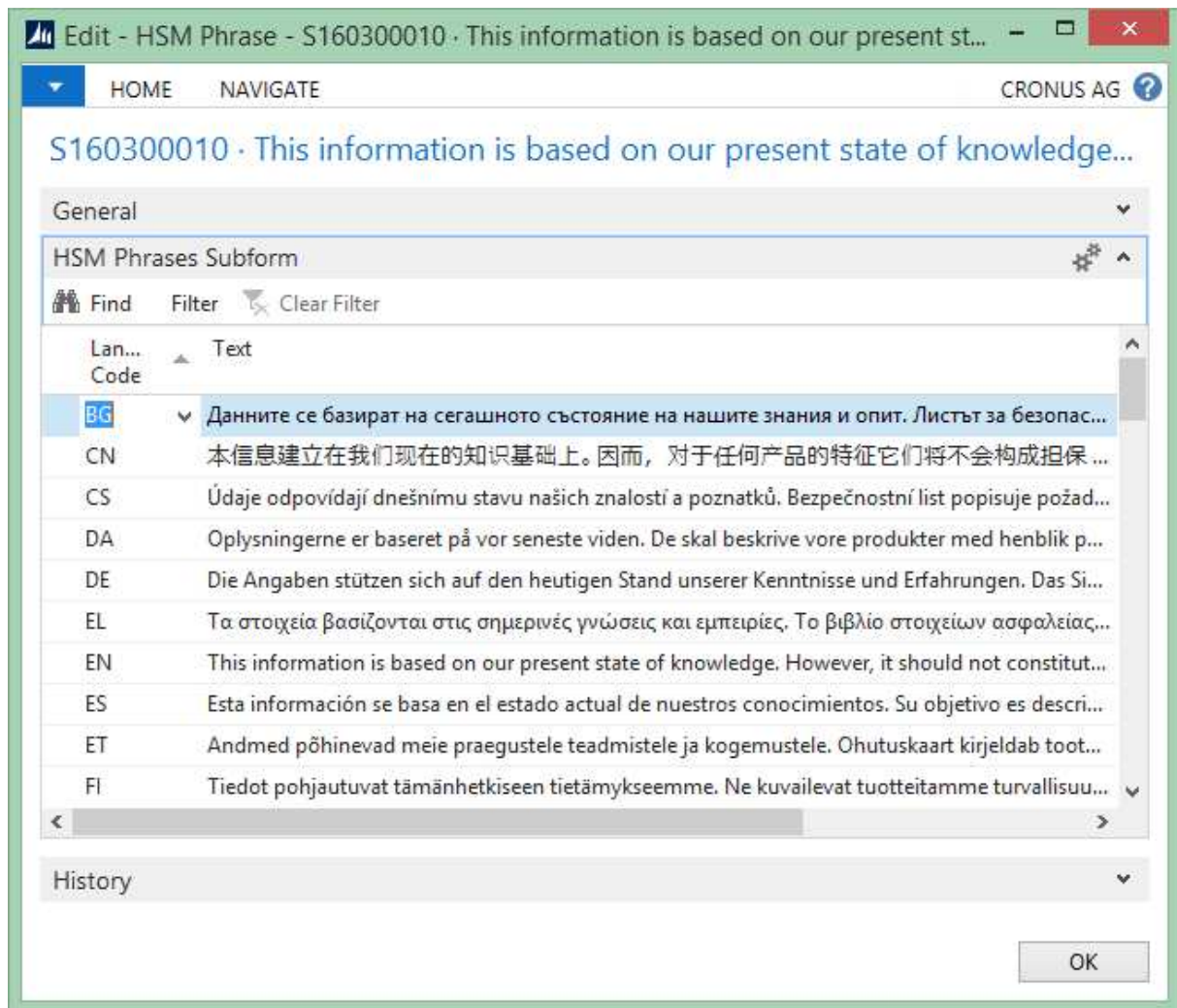


Figure 13: Phrase card with translations of Phrase S160300010

Versioning

HSM contains a sophisticated version control for the report documents to be generated. With this function, releases for individual countries or supra-national regions like the EU can be granted or withdrawn.

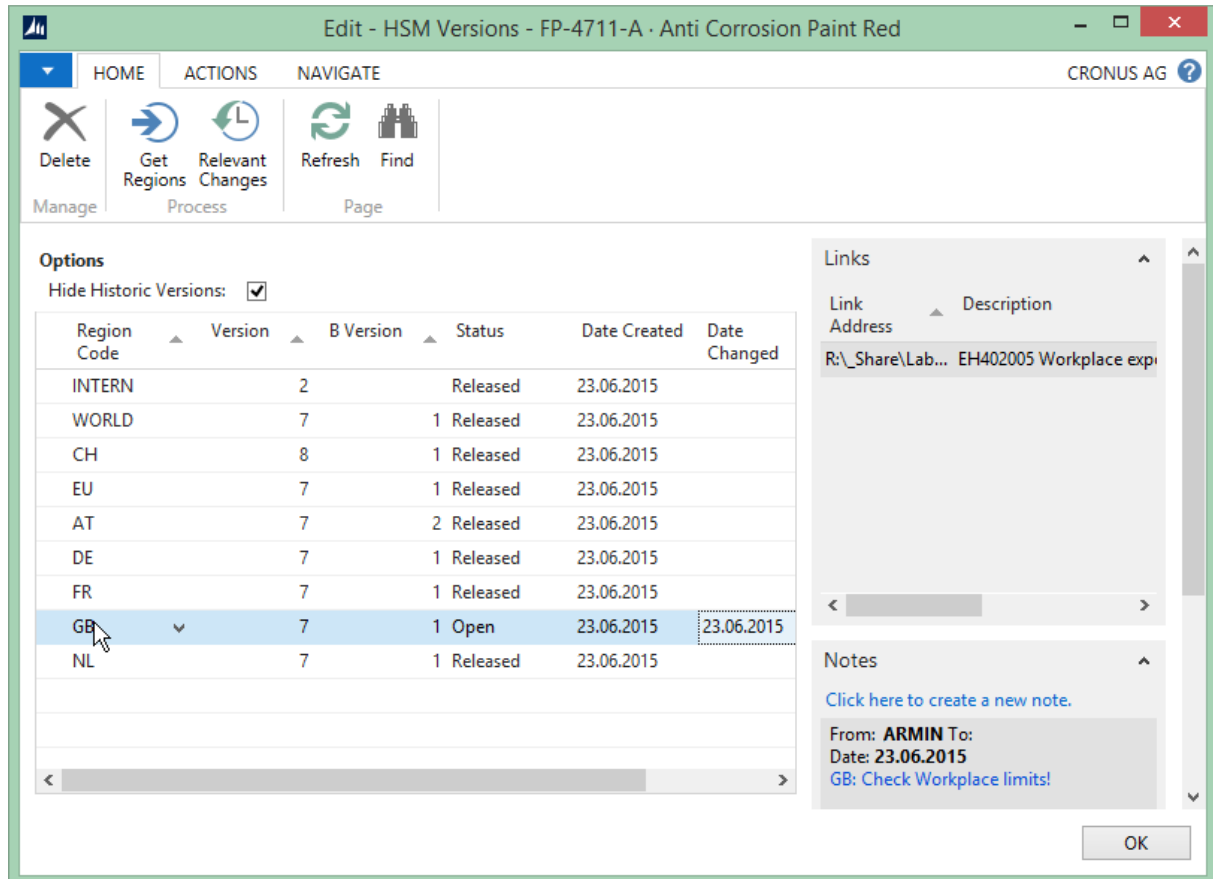


Figure 15: Versioning

Versions may be edited in *HSM* until they are released. Released versions may be used NAV wide, e.g. for the order-related automatic SDS dispatch.

For each version it is logged, in which properties it came to relevant changes. After relevant changes, one should raise the version number by which the automatic re-dispatch of reports is controlled. Editorial (= non-relevant) changes are documented by an increased B Version.

Edit - HSM Relevant Changes - FP-4711-B · Korro Rot

HOME CRONUS AG ?

HSM Relevant Changes ▾ | ▾ | ➔ ⤴

Show results:

✗ Where ▾ is **FP-4711-B**

+ Add Filter

Property Code	Property Description	Version	B Version
S-TR-ADR	Land transport ADR/RID	1	
S-TR-IATA	Air transport ICAO/IATA	1	
S-TR-IMDG	Marine transport IMDG/GGVSee	1	
S-G-CL-EU	Classification (EC-GHS)	2	
S-G-CL-UN	Classification (UN-GHS)	2	
S-G-HAZ-EU	Hazard statements (EC-GHS)	2	
S-G-HAZ-...	Hazard statements (UN-GHS)	2	
S-TR-ADR	Land transport ADR/RID	2	
S-TR-IATA	Air transport ICAO/IATA	2	
S-TR-IMDG	Marine transport IMDG/GGVSee	2	

Figure 16: Listing of Relevant changes for a certain substance

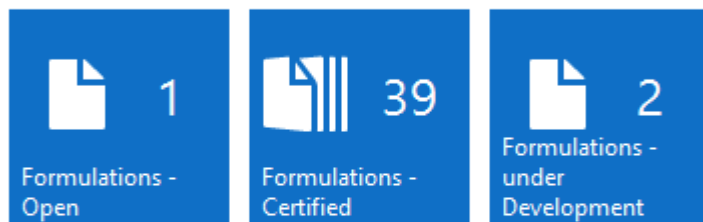
Requests

For operations such as the classification calculation of mixtures, SDS generation and SDS dispatch requests are written into an *HSM* table. The processing of the requests is logged. In the Role Center the open and finished requests can be quickly captured visually and viewed in detail.

Role Center

Activities

Formulations



Requests

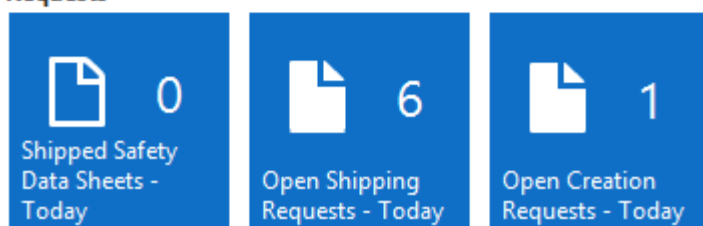


Figure 17: Currently requested reports (1 SDS to be generated, 6 to be dispatched)

Thus, with *HSM* one can always track and prove

- which customer has actually got which report, for example Safety Data Sheets (SDS view code), for a particular item (status: Finished) or
- which reports for which items were sent to a certain customer.

Request List - Microsoft Dynamics NAV

CRONUS AG ▶ Home ▶ Request List ▶

Search (Ctrl+F3)

CRONUS AG - HSMW11020003_Vollversion...

Type to filter (F3) | Type

Request List

Show results:

Where Substance No. is FP-4712-B

And Recipient Type is Customer

+ Add Filter

Type	Item No.	Substance No.	View Code	Recipient Type	Recipient No.	Recipient Name	Status
Report	70102	FP-4712-B	SDS	Customer	01905902	London Candoxy Storage ...	Finished
Report	70102	FP-4712-B	SDS	Customer	31987987	Candoxy Nederland BV	Finished
Report	70102	FP-4712-B	SDS	Customer	41497647	Pilatus AG	Finished
Report	70102	FP-4712-B	SDS	Customer	33000019	Francematic	Finished
Report	70102	FP-4712-B	SDS	Customer	34010199	Corporación Beta	Finished

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Figure 17: Requested and generated SDSs for Substance No. FP-4712-B