

Fact Sheet

Hazardous Substance Management for Microsoft Dynamics™ NAV

HSM, the Hazardous Substance Management module for Microsoft Dynamics™ NAV (Navision), contains substance database, formulation management and calculation modules for hazardous substance and dangerous goods classification of mixtures etc., as well as functions for the generation of documents, in particular for the Safety Data Sheet according to REACH Regulation. For a list of all HSM functions and services provided by Prosisoft please see below.

Main functionality

- Substance database and formulation management
- Classification- and labelling calculation according to Dir. 1999/45/EC¹ and GHS (CLP Regulation)
- Safety Data Sheet, also Extended SDS (eSDS) and other documents
- Automatical SDS dispatch with region related version management
- Dangerous goods classification and transport processing (documents for ADR, IMO, IATA)
- Flow Chart Calculator (FCC) for freely definable rule sets

Evaluations of all kinds

With the Flow Chart Calculator FCC all kinds of rules and regulations can be freely configured or imported and processed if necessary. This makes evaluations and calculations far beyond the classic hazardous substance calculations possible, e.g. declaration of VOC levels according to the Swiss incentive tax, ingredient groups according to the Detergents Regulation, checking for conformity with substance inventories, both positive and negative lists of all kinds, monitoring of compliance with application-related limits (e.g. VOC contents according to Decopaint Directive, heavy metals contents according to EN 71-3).

High flexibility

Evaluation and calculation functions, data acquisition and output structures such as forms and documents, SDS sections, substance properties, etc. may be self-configured. Predefined standards for EU Safety Data Sheet, Exposure Scenario, ADR transport document, IMO- and IATA statement, workplace instructions and label data are available. Documents, such as declarations of conformity, technical data sheets (product data sheets), Certificates of analysis can be delivered as specified by the user or may be defined by the user.

Strong integration

HSM integrates seamlessly into the business processes through use of production recipes, region-related SDS release, dispatch or re-dispatch on relevant changes to affected customers, order-related dangerous goods related shipment processing. Research functions for all NAV tables allow the generation of e.g. the current hazardous substance inventory by linking storage locations, quantities, and classification data. GSM is available for versions of NAV from NAV 4 to NAV 9 (NAV 2015).

Reliable data

Classification data for all substances of Annex VI to CLP Regulation as well as other substances contained in certain substance lists (e.g. for national occupational exposure limits), occupational exposure limit values for currently more than 20 regions, dangerous goods lists (ADR, IMDG, IATA), national substance inventories (TSCA, IECSC and many others), German Water Hazard Class, VOC (EU, Decopaint, Switzerland), ECHA Candidate List. Text phrases in currently 28 languages including Chinese. EUPhrac phrases for the eSDS annex already integrated (for standard SDS in preparation).

¹ at the moment still needed for some downstream regulations, not yet adapted to GHS

HSM functions

Standard calculations

- Classification of mixtures pursuant to Dangerous Preparations Directive 1999/45/EC (see footnote 1)
- German Water Hazard Class in accordance with Annex 4 VwVwS
- Classification of mixtures in accordance with Regulation (EC) No. 1272/2008 (CLP) for Europe and other regional legislations, e.g. USA
- Classification of mixtures pursuant to transport legislation (ADR/RID, IMDG, IATA)

Processing

- Automatic initiation of calculations (e.g. after release of production BOMs)
- Recalculation of all recipes with certain ingredients ("where-used" calculation)
- Documented customer- and order-based automatic document dispatch for regionally released products with subsequent re-dispatch on relevant changes
- Web application for requesting documents (e.g. SDSs) by registered customers
- Automatic transport processing (generation of shipment related transport documents)
- Reports to poison centers (fulfillment of requirements under Article 45 of the CLP Regulation)

Reports and documents

- EU Safety Data Sheet in accordance with Regulation (EC) No. 1907/2006 (REACH), also as Extended Safety Data Sheet (with attached Exposure Scenarios)
- Exposure Scenario (also as container for Contributing Exposure Scenarios)
- US MSDS
- Labels
- Transport documents according to ADR/RID, IMDG (IMO Declaration) und IATA
- Workplace instructions
- Data sheet according to Regulation (EC) 648/2004 (Detergents)
 - Declaration of ingredients for the general public
 - Declaration of ingredients for medical staff
- Product data sheet (technical data sheet), instructions for use
- Inspection certificate, manufacturer's declaration, Certificates of Analysis
- Declarations of Conformity

Further evaluations and calculations

- REACH calculations
 - Compliance Check: sectors of use
 - Content Declarations: Acquisition of raw material data in Exposure Scenario
 - Assignment of Group Exposure Scenarios
- Calculation or estimate of physical and chemical quantities
 - Flash point
 - Density
 - Free OH-groups
- Recipe analysis on raw materials and/or ingredient level
 - Solids-, pigment-, solvent content
 - Content of certain elements, e.g. heavy metals, halogens
 - Volatile org. compounds (VOC) acc. to Directive 1999/13/EC
 - Volatile org. compounds (VOC) acc. to Decopaint Directive 2004/42/EC
 - Other substance groups such as diaryl compounds, phthalates, etc.
 - Allergen sources acc. Regulation (EU) No 1169/2011 (food)

- Matching inventory lists resp. positive lists and negative or prohibition lists
 - National substance inventories such as TSCA, DSL/NDSL, IECSC, ENCS etc.
 - ECHA Candidate List („SVHC“)
 - Substance inventories for the USA (SARA Title III etc.)
 - REACH registration status
- Conformity check (compliance with certain regulations)
 - Decopaint Directive (allowable VOC levels for certain product groups)
 - Food packaging printing release (e.g. acc. to Regulation (EC) No. 1935/2004)
 - Toy standard EN 71-3 (content of certain elements)
 - CONEG resp. Directive 94/62/EEC (heavy metals in packaging materials)
- Determination of the MAL Code (Denmark) for mixtures
- US substance rankings HMIS and NFPA
- Customs related regulations
 - Swiss incentive tax on volatile organic compounds (VOCV)
 - Preference certificate of origin
- Quantity-based listings
 - Hazardous substance inventory
 - Substance inventory acc. to Directive 2012/18/EU (Seveso-III)
 - Solvent balance pursuant to the Solvent Directive
- Flow chart calculator (FCC). The calculations listed here (and the mixture calculations according to the GHS) are stored as FCC configurations. By means of the FCC, calculations defined by the user can be processed as well.
- Research module. Allows the deposit of user-defined queries on all tables (if released in the granting of rights) of the entire NAV database.

Data

Basic substance data

- Classification and labelling data (acc. Substance Directive and GHS) for substances of Annex VI Regulation (EC) No. 1272/2008 (CLP) and further substances (e.g. substances with national workplace exposure limits or substances contained in the Code of Practice (CoP) of EFFA (European Flavour Association))
- Substance IDs, e.g. CAS-, EC- and REACH-Registry Number (if published), and multilingual substance descriptions
- Dangerous goods assignments
- Limit values
 - Workplace exposure limits (mostly air limit values) for all EU regions and some non-European regions
 - DNEL values
 - Biological limit values
- Special (inter-)national listings assignments such as WGK (German Water Hazard Class), MAL Factor (Denmark), VOC (as defined by Decopaint- and Solvent Directive (EU) or incentive tax ordinance (Switzerland)), ECHA Candidate List (EU)
- Assignments to national substance inventories such as AICS, IECSC, ENCS, ECL etc.
- Toxicological data

Dangerous goods data

- Data in accordance with the dangerous goods tables of the regulations ADR/RID, IMDG, IATA
- Proper Shipping Names; for ADR/RID in the languages German, English, French and Dutch (further languages may be added by Prosisoft on demand)

Text modules

Prosisoft phrase catalogue

- Western European languages (DE, EN, DA, ES, FI, FR, IT, NL, NO, PT, SE)
- Eastern European languages (BG, CS, HR, HU, PL, RO, SK, SL)
- Further languages (LT, LV, ET, RU, EL, TR)
- Chinese and others (CN, BH, SR)

The phrases can be purchased for individual languages or in the above mentioned packages. German and English (also for the program user interface) are included in the Basic module. Extensions of the phrase and language volume by the user are possible at any time (also applies to the program interface). The catalogue is continuously extended by Prosisoft.

European phrase catalogue (EUPhraC)

Especially for the Extended Safety Data Sheet, the EUPhraC phrases are available too (in German and English; other languages via a Prosisoft affiliate).

Services

Normally, **installation** and **user training** are completed in two days. All services - also data transfers, special adjustments, special training (e.g. for design and calculation adjustments by the user) and maintenance tasks are charged according to the actual costs within the limits of an upper estimate.