

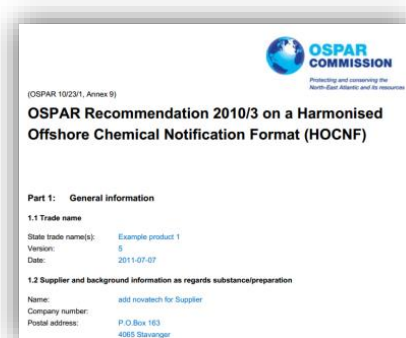


The ultimate HOCNF tool for Chemical Suppliers

NEMS Chemicals® is a market leading database and web application tool used by the oil and chemical industries for documenting, evaluating and reporting chemicals' environmental properties.

NEMS Chemicals® supports the **HOCNF** format, a de facto standard for ecotoxicological documentation of offshore chemicals.

NEMS Chemicals® is ideal for preparing, storing, distributing and printing HOCNF datasheets. A cost efficient licensed solution, available 24/7 world-wide from our secure web server, is currently used by more than 80 chemical supplier companies.



NEMS Chemicals® has the full package of editing, reporting and management features for producing complete and high-quality HOCNFs fast and easy. The program automatically checks HOCNF consistency and calculates environment colour.

NEMS Chemicals® is recommended for supplier companies of all sizes looking to improve and rationalise chemical management.

ID	Trade Name	Ver	Date	Colour	Y	Authorized	Submitted	Approved	State
7268	Example product 9	3	2011-05-25	Red	Y1	2011-07-11		2011-09-01	

ID	Substance Name	Ver	Date	Approved	CAS No	Env Colour	Conc %
3469	Deionized water	1	2011-02-09	2010-03-23	7732-18-5	200 - Green	50 - 100
3457	Ethylene glycol	1	2011-02-09	2010-03-23	107-21-1	201 - Green	10 - 30
3482	Example substance 13	2	2011-07-18	2011-09-01	509-34-2	101 - Yellow	1 - 5
3475	Example substance 16	2	2011-07-18	2011-09-01	34375-28-5	100 - Yellow	1 - 10
3470	Example substance 2	2	2011-05-25	2011-09-01		101 - Yellow	1 - 5
3473	Example substance 20	2	2011-08-02	2011-09-01		100 - Yellow	1 - 5
3471	Example substance 4	2	2011-07-11	2011-09-01	68937-73-5	100 - Yellow	1 - 10
3472	Example substance 5	2	2011-07-11	2011-09-01		101 - Yellow	1 - 10
3474	Example substance 6	2	2011-07-13	2011-09-01	68153-57-1	6 - Red	1 - 10

- ✓ Saves time and cost
- ✓ Ensures quality and compliance
- ✓ Simplifies management
- ✓ Ensures confidentiality
- ✓ Helps marketing chemicals
- ✓ Free registration and support
- ✓ Free 3 year HOCNF recertification



Online 24/7



Saves time and cost

NEMS Chemicals® saves time and manpower in HOCNF preparation and updating.

With all related information readily available in one program on your PC you don't waste time searching for information in different sources.

Simply fill in the template and print a complete, fully formatted OSPAR HOCNF document. And take advantage of the free support and training included in the license package.

Creating HOCNFs is done fast and accurately thanks to specialized menus, drop-down lists and editors tailor-made for each section and ecotox test type. For example when entering bioaccumulation tests, you select test laboratory and test method from lists containing preregistered, relevant and approved items.

The screenshot shows a software interface with the following fields:

- Log Pow: Avg (2.2), Min, Max (2.83)
- Test Laboratory: Chemex Int. Plc [422]
- Test Method: OECD 117 (selected from a list including Assessment, EPA fragment, KOWWIN, Method A8, OECD 107, and OECD 117)

The built-in updated PLONOR / REACH substance dropdown lists help determine whether environmental testing is required.

The advanced auto-complete substance editor lets you search and select from dropdown lists with correct CAS and EC numbers automatically filled in. If you type a CAS or EC number you will get a matching substance name without having to do any manual typing.

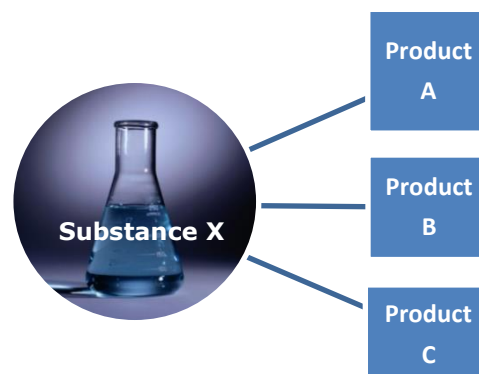
The screenshot shows a software interface with the following fields:

- PLONOR (selected) / REACH Annex IV
- Substance: Ethanol
- CAS No: 64-17-5
- EC No: 200-578-6 (selected from a list including 200-061-5, 200-066-2, 200-289-5, 200-315-5, 200-559-2, 200-578-6, and 200-578-6)

The environment colour calculator, based on the OSPAR pre-screening scheme fine-tuned to national regulations, saves time and helps you avoid costly miscalculations. Each substance's environment category is automatically calculated along with components' aggregated colour percentages on product level and overall product colour.

Env Colour	Env Colour %
Red	4.2
Yellow	19.47
Green	76.34
Yellow subclass 1	8.78

All substances and test studies you register are automatically added to your company's own substance library, from which you may select components for use in any product.



When you update a substance used in multiple products, a new product version may be automatically created and the HOCNFs for all dependent products updated accordingly.

Another time saver included in the paid NEMS Chemicals® license is the *HOCNF Duplicate function*. Copying a complete HOCNF dataset for a product or substance is done with a few mouse clicks. You don't have to type in the same information over and over for each similar product. This reduces the risk of inconsistencies and human error.

Ensures quality and compliance

NEMS Chemicals® helps you ensure high data quality and document compliance with regulatory requirements.

The built-in quality and consistency control lets you efficiently check that HOCNFs are complete and formally correct to satisfy regulatory requirements, thereby avoiding unnecessary extra work and delays.



Simplifies management

NEMS Chemicals® rationalises and simplifies chemical management by collecting all pertinent information about your HOCNFs in one place.

All information associated with a HOCNF is kept in one database and is directly accessible when a chemical product or substance is selected.

This information includes:

- chemical data, such as product composition and test results
- uploaded documents, such as Safety Data Sheets and certificates
- product version history with HOCNF report and environment colour available
- substance version history with complete summary report
- list of customer companies and users with access
- additional information such as Danish Product Register and Cefas numbers

The extensive database search, filtering and reporting functions included in the full version provide full overview and control over own products and substances. For example, you may easily generate and print a list of all your products sorted by environment colour, function group, or trade name.

The Help page contains direct links to updated regulations and guidelines.

Ensures Confidentiality, Integrity and Availability

NEMS Chemicals® helps keeping your data secured against unauthorized access. The service is ISO 27001 certified.



Data access is fully controlled by the supplier. Each company has its own

account, totally separated from and invisible to other companies. A supplier company can view own data only. A company can never view another supplier's data unless data is explicitly shared by the owner following strict procedures.

The supplier super user assigns own users and controls their user access level. Full users can view an entire HOCNF while limited users can view only trade name and environment colour.

The secure, encrypted https protocol for internet access is applied.



A two-factor user authentication system is applied, where both a password and a one-time PIN code is required for each user logon.

All data is safeguarded within a protected database environment. The NEMS Chemicals® database solution gives better control of confidential data, reducing the need to expose sensitive information in emails and printouts.



Instead of residing in email inboxes and various office documents, all data entry and retrieval is done within a protected

database where activity and access is logged and monitored.

Helps marketing

NEMS Chemicals® provides a marketplace for reaching targeted customers.

HOCNF (Harmonized Offshore Chemical Notification Format) is a mandatory reporting format in all countries covered by [OSPAR](#): Belgium, Denmark, Finland, France, Germany, Iceland, Ireland, Luxembourg, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

HOCNF are increasingly used as the most appropriate method to document and control offshore chemicals' environmental properties.



With a full NEMS Chemicals® license your products can be efficiently marketed in a medium daily accessed by users involved in selecting chemicals.

19 operating oil companies in Norway and Denmark (per October 2017) have NEMS Chemicals® operator licenses and can be granted access to products by suppliers using NEMS Chemicals®:

- A/S Norske Shell
- Aker BP ASA
- Bayerngas Norge AS
- Centrica Energi NUF
- ConocoPhillips Norge Nuf
- DEA Norge AS

- ENGIE E&P Norge AS
- Eni Norge AS
- ExxonMobil Expl. & Production
- Faroe Petroleum Norge as
- Lundin Norway AS
- Mærsk Olie og Gas A/S
- OMV (Norge) AS
- Repsol Norge AS
- Statoil ASA
- Suncor Energy Norge AS
- Total E&P Norge as
- VNG Norge AS
- Wintershall Norge AS

The NEMS Chemicals® database holds HOCNF data for 5000 chemical products from 200 chemical suppliers.



SaaS - Online 24/7

NEMS Chemicals® is an online Software as a Service (SaaS) solution accessible worldwide 24/7.

No software download or installation is required. Once your user account is set up you are ready to start creating and printing your HOCNF datasheets.

Additional benefits in Norway and Denmark

The major oil companies operating in the Norwegian and Danish sectors use NEMS Chemicals® as their primary channel for HOCNF data from suppliers.

To ensure consistency and compliance with regulations (in Norway defined by the [Norwegian Environment Agency, Miljødirektoratet](#)) HOCNFs are submitted by the supplier for quality control at the [KPD Centre](#) before access is opened for operators.



*HOCNF registration with QA and Approval of both NEW and UPDATED products is **free for license holders**. The fee is NOK 4800 (per 2017) per product when covered by a supplier company without a paid license.*

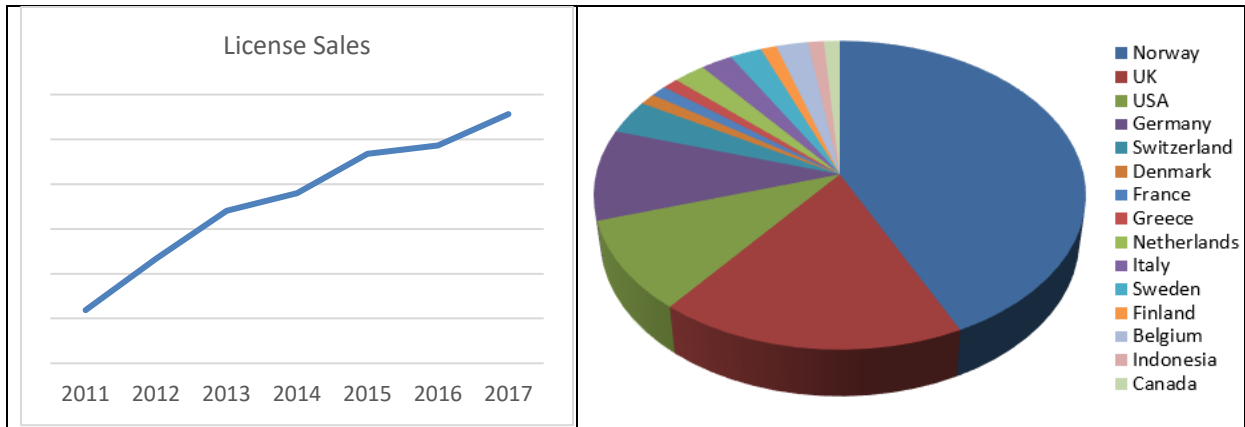
HOCNFs opened for Norwegian operators can be viewed by the Norwegian Environment Agency (Miljødirektoratet) in addition to the operator companies granted access by the supplier.

HOCNFs opened for Danish operators can be viewed by the operator companies granted access by the supplier.

All users are required to sign non-disclosure agreements prior to login.

Most supplier users choose the full license

80+ chemical supplier companies located in 15+ different countries have purchased the full version of **NEMS Chemicals®**.



With permission we list a selection below:



Reliable services from add energy KPD Centre

NEMS Chemicals® is developed and operated by [add energy](#), a leading consultancy company providing the oil industry with a wide range of services including environmental management and reporting.



- User support is provided by the [KPD Centre](#), a competence centre with more than 20 years of experience from chemicals environmental documentation and governmental reporting.
- Free user support from KPD is included in the NEMS Chemicals® Supplier license.
- We offer environmental management and HOCNF services for chemical suppliers as well as operating oil companies.
- Suppliers wishing to outsource creation and registration of HOCNFs can safely order such services from us at short delivery times and competitive prices.



For more information: www.nems.no

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