

## SAFETY DATA SHEET

according to the Globally Harmonized System

### MORWET D-400 POWDER

Version 2

Revision Date 14.11.2017

Print Date 30.12.2020

IN / EN

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING


Product Information	
Trade name	: MORWET D-400 POWDER
Use of the Substance/Mixture	: Specific use(s): Surfactant
Company	: Nouryon Surface Chemistry AB Stenunge Alle 3 SE 444 85 Stenungsund Sweden
Telephone	: +4630385000
Telefax	: +4630384659
E-mail address	: Regulatory.Affairs@nouryon.com
Emergency telephone number	: 020 99 60 00 Kemiakuten, SE +31 57 06 79 211 24 hours emergency response number

#### 2. HAZARDS IDENTIFICATION

##### GHS-Classification

Serious eye damage/eye irritation, Category 2A

##### GHS-Labeling

Hazard pictograms : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

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P264

Wash skin thoroughly after handling.

P280

Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

**Other hazards which do not result in classification**

No further data available.

Risk of dust explosion.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

### Hazardous components

Chemical name	CAS-No.	GHS Classification	Concentration[%]
Sulfonated aromatic polymer, sodiumsalt		Eye Dam./Irrit. 2A; H319	>= 70 - < 90

For the full text of the H-Statements mentioned in this Section, see Section 16.

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## 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.
- Inhalation : Remove to fresh air.  
Keep patient warm and at rest.  
Rinse nose and mouth with water.
- Skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.
- Eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Obtain medical attention.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

### Notes to physician

- Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.
- Treatment : Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during : Risks of ignition followed by flame propagation or secondary

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firefighting / Specific hazards arising from the chemical	explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Combustion products	: Carbon oxides Sulphur oxides Metal oxides
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Standard procedure for chemical fires.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Emergency measures on accidental release	: Evacuate personnel to safe areas. Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.
Environmental precautions	: Try to prevent the material from entering drains or water courses.
Methods for cleaning up / Methods for containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Reference to other sections	: For disposal considerations see section 13.  For personal protection see section 8.

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling	: For personal protection see section 8. Avoid formation of respirable particles. Avoid contact with skin, eyes and clothing. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Smoking, eating and drinking should be prohibited in the application area.
Advice on protection against fire and explosion	: Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

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## Storage

Requirements for storage areas and containers : Keep in a dry place.  
Store at room temperature in the original container.  
Keep container tightly closed.

Other data : No decomposition if stored and applied as directed.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

#### Engineering controls

Provide appropriate exhaust ventilation at places where dust is formed.  
Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

Respiratory protection : Half mask with a particle filter P2 (EN 143)

Hand protection : Neoprene  
Nitrile rubber

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

#### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form : powder

Colour : brown

Odour : pungent

Odour Threshold : No data available

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## Safety data

pH	: 7.5 - 10 at 5 % solution
Melting point/range	: No data available
Boiling point/boiling range	: Not applicable
Flash point	: > 100 °C Method: Pensky-Martens closed cup
Ignition temperature	: > 100 °C
Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable.
Flammability (liquids)	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Water solubility	: soluble
Solubility in other solvents	: Acetone Methanol soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: at 20 °C Not applicable
Viscosity, kinematic	: at 20 °C Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: No hazardous decomposition products are known.
Thermal decomposition	: No data available
Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under recommended storage conditions.
Hazardous reactions	: Dust may form explosive mixture in air.

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## 11. TOXICOLOGICAL INFORMATION

### Product information:

### Potential Health Effects

Inhalation	: Thermal decomposition can lead to release of irritating gases and vapours. Product dust may be irritating to the respiratory system.
Skin	: Product dust may be irritating to skin. May cause skin irritation.
Eyes	: Causes serious eye irritation.
Ingestion	: May cause irritation of the mucous membranes.
Aggravated Medical Condition	: None known.
Symptoms of Overexposure	: The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

### Toxicology Assessment

Further information	: No further data available.
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### Toxicology data for the components:

### Test result

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**Component: Sulfonated aromatic polymer, sodiumsalt**

Acute oral toxicity : LD50: > 5,000 mg/kg  
Species: Rat

Eye irritation : Result: Irritating to eyes.

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**12. ECOLOGICAL INFORMATION****Product information:****Ecotoxicology Assessment**

Additional ecological information : None known.

**Components:****Test result****Component: Sulfonated aromatic polymer, sodiumsalt****Ecotoxicity effects**

Toxicity to fish : LC50: > 10 - 100 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Method: OECD Test Guideline 203  
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates : > 100 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202  
Read-across (Analogy)

Toxicity to algae : EC50: > 100 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201  
Read-across (Analogy)

EC10: > 100 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Method: OECD Test Guideline 201  
Read-across (Analogy)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 10 - 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Read-across (Analogy)



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## Elimination information (persistence and degradability)

Bioaccumulation : No bioaccumulation is expected.

Mobility : No data available

Biodegradability : Result: Not readily biodegradable.  
Read-across (Analogy)

## Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

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## 13. DISPOSAL CONSIDERATIONS

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### International Regulations

#### ADR

Not regulated as a dangerous good

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Further information for transport

Not classified as dangerous in the meaning of transport regulations.

#### Land transport

Not regulated as a dangerous good

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## 15. REGULATORY INFORMATION

### Notification status

DSL : YES. All components of this product are on the Canadian DSL  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory  
TCSI : YES. On the inventory, or in compliance with the inventory  
TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

For explanation of abbreviation see section 16.

Further information : none

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## 16. OTHER INFORMATION

### Full text of H-Statements

H319 : Causes serious eye irritation.

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning

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the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

## **Further information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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