

SAFETY DATA SHEET

according to the Globally Harmonized System

MORWET EFW POWDER

Version 1

Revision Date 05.02.2020

Print Date 30.12.2020

IN / EN

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

Product Information
Trade name : MORWET EFW 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
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emergency response number-:

2. HAZARDS IDENTIFICATION

GHS-Classification

Acute toxicity, Category 5, Oral
Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 1
Short-term (acute) aquatic hazard, Category 3

GHS-Labelling

Hazard pictograms : 

Signal word : Danger

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Hazard statements	: H303 H315 H318 H402	May be harmful if swallowed. Causes skin irritation. Causes serious eye damage. Harmful to aquatic life.
Precautionary statements	: Prevention: P264 P273 P280 Response: P301 + P312 P305 + P351 + P338 + P310 Disposal: P501	Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Dispose of contents/container in accordance with local regulation.

Other hazards which do not result in classification

Risk of dust explosion.
No further data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Hazardous components

Chemical name	CAS-No.	GHS Classification	Concentration[%]
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	1258274-08-6	Acute Tox. 5; H303 Skin Corr./Irrit. 2; H315 Eye Dam./Irrit. 1; H318 Aquatic Acute 3; H402	>= 70 - < 90
Sodium dioctylsulphosuccinate	577-11-7	Acute Tox. 5; H303 Skin Corr./Irrit. 2; H315 Eye Dam./Irrit. 1; H318 Aquatic Acute 2; H401	>= 10 - < 20

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 : Immediate medical attention is required.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- Inhalation : Rinse nose and mouth with water.
- Skin contact : Take off contaminated clothing and shoes immediately.
Rinse immediately with plenty of water.
If skin irritation persists, call a physician.
- Eye contact : Rinse with plenty of water.
Get medical attention immediately. Continue to rinse during transport.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.
Never give anything by mouth to an unconscious person.

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.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Specific hazards during firefighting / Specific hazards arising from the chemical : Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
- Combustion products : Carbon oxides
Sulphur oxides
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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| 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. |

7. HANDLING AND STORAGE

Handling

- | | |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | : For personal protection see section 8.
Avoid creating dust.
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.
Dispose of rinse water in accordance with local and national regulations. |
| Advice on protection against fire and explosion | : Provide appropriate exhaust ventilation at places where dust is formed.
No sparking tools should be used. |
| Dust explosion class | : St1 |

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. |

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.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : powder

Colour : tan

Odour : stinging

Odour Threshold : No data available

Safety data

pH : 7.5 - 10 at 5 % solution

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : > 100 °C
Method: Pensky-Martens closed cup

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Ignition temperature	: > 100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: May form combustible dust concentrations in air during processing, handling or other means.
Flammability (liquids)	: No data available
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Dust explosion class	: St1
Dust deflagration index (Kst)	: 97 m.b_/s
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

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

10. STABILITY AND REACTIVITY

Conditions to avoid	: None known.
Materials to avoid	: None known.
Hazardous decomposition products	: No hazardous decomposition products are known.

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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.

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. Causes skin irritation.
Eyes	: Causes serious eye damage.
Ingestion	: May be harmful if swallowed.
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.

Toxicology data for the components:

Test result

Component: Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts

Acute oral toxicity	: LD50: > 2,000 - 5,000 mg/kg Species: Rat Method: OECD Test Guideline 401
Skin irritation	: Species: Rabbit Result: Irritating to skin. Method: OECD Test Guideline 404

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Eye irritation : Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 437

Sensitisation : Buehler Test
Species: Guinea pig
Result: Does not cause skin sensitisation.
Method: OECD Test Guideline 406

Component: Sodium dioctyl sulphosuccinate

Acute oral toxicity : LD50: > 3,000 mg/kg
Species: Rat
Method: OECD Test Guideline 401

Skin irritation : Species: Rabbit
Result: Irritating to skin.
Method: OECD Test Guideline 404

Eye irritation : Species: Rabbit
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405

12. ECOLOGICAL INFORMATION

Product information:

Ecotoxicology Assessment

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

Components:

Ecotoxicology Assessment

Component: Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts

Long-term (chronic) aquatic hazard : This product has no known ecotoxicological effects.

Test result

Component: Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts

Ecotoxicity effects

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

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Toxicity to daphnia and other aquatic invertebrates : EC50: > 100 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10: > 1 - 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

Bioaccumulation : Bioaccumulation is unlikely.

Mobility : No data available

Biodegradability : Result: Inherently biodegradable.
Method: OECD Test Guideline 301D

Further information on ecology

Biochemical Oxygen Demand (BOD) : No data available

Component: Sodium dioctyl sulphosuccinate

Ecotoxicity effects

Toxicity to fish : LC50: > 10 - 100 mg/l
Exposure time: 96 h
Species: Danio rerio (zebra fish)
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates : EC50: > 1 - 10 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : EC50: > 10 - 100 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: Directive 67/548/EEC, Annex V, C.3.

EC10: > 10 - 100 mg/l
Exposure time: 72 h
Species: Desmodesmus subspicatus (green algae)
Method: Directive 67/548/EEC, Annex V, C.3.

Elimination information (persistence and degradability)

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Bioaccumulation	: Bioaccumulation is unlikely.
Mobility	: No data available
Biodegradability	: Result: Readily biodegradable. Method: OECD Test Guideline 310

Further information on ecology

Biochemical Oxygen Demand (BOD)	: No data available
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13. DISPOSAL CONSIDERATIONS

Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulation.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product.

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

15. REGULATORY INFORMATION

Notification status

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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
PICCS	: NO. Not 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
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

16. OTHER INFORMATION

Full text of H-Statements

H303	: May be harmful if swallowed.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H401	: Toxic to aquatic life.
H402	: Harmful to aquatic life.

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; 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 the Registration, Evaluation,

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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.
