

SAFETY DATA SHEET

ENSIS DW 2462

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Netherlands

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product code : 206182-01

Product name : ENSIS DW 2462

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant uses : Rust Preventative

Uses advised against: Any other purpose.

1.3 Details of the supplier of the safety data sheet

Supplier : Quaker Houghton BV

Industrieweg 7, 1422 AH Uithoorn

The Netherlands T:+31 (0) 297 544644

ProductStewardship-EMEA@quakerhoughton.com

www.quakerhoughton.com

1.4 Emergency telephone number

Telephone number: CHEMTREC Netherlands: +(31)-858880596

National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only

available to health professionals)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Product definition: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Asp. Tox. 1, H304

See Section 16 for the full text of the H statements declared above.

2.2 Label elements

Hazard pictograms



Signal word : Danger

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SECTION 2: Hazards identification

Hazard statements

: H304 - May be fatal if swallowed and enters airways.

Precautionary statements

Prevention : Not applicable.

Response : P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor. Do NOT induce vomiting.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

Hazardous ingredients

Supplemental label

: Mineral oil **

elements

articles

: Repeated exposure may cause skin dryness or cracking. Contains Sulfonic acids, petroleum, calcium salts. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture does not contain any substances that are assessed to be a PBT or a

vPvB.

Other hazards which do not result in classification

: None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Mineral oil **	-	≥50 - ≤75	Asp. Tox. 1, H304 EUH066	-	[1] [2]
Mineral oil	-	≤5	Not classified.	-	[2]
Distillates (petroleum), hydrotreated heavy naphthenic	REACH #: 01-2119467170-45 EC: 265-155-0 CAS: 64742-52-5	≤5	Not classified.	-	[2]
Naphtha (petroleum), hydrotreated heavy	REACH #: 01-2119486659-16 EC: 265-150-3 CAS: 64742-48-9	≤3	Asp. Tox. 1, H304	-	[1]
Sulfonic acids, petroleum, calcium salts	REACH #: 01-2119488992-18 EC: 263-093-9 CAS: 61789-86-4	≤2.6	Skin Sens. 1B, H317 Aquatic Acute 1, H400	Skin Sens. 1B, H317: C ≥ 10% M [Acute] = 1	[1]
calcium bis (dinonylnaphthalenesulphonate)	REACH #: 01-2119980985-16 EC: 260-991-2 CAS: 57855-77-3	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]

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SECTION 3: Composition/information on ingredients

oleic acid, compound with (Z)-N-octadec- 9-enylpropane-1,3-diamine (2:1)	REACH #: 01-2119974119-29 EC: 251-846-4 CAS: 34140-91-5	≤2.2	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 10	[1]
2-(2-butoxyethoxy)ethanol	REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5	≤3	Eye Irrit. 2, H319	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

^{**} **May contain** : 918-481-9 (01-2119457273-39)

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Get medical attention.	It medical ad	dvice is needed,	have	product container or label
		at hand. Has personal	protoctive o	auinment ee rea	iirad	Domovo contominated

at hand. Use personal protective equipment as required. Remove contaminated clothing and wash it before reuse. Wash skin surfaces thoroughly after contact.

Inhalation : Get medical attention immediately. Move affected person to fresh air. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Aspiration hazard if swallowed. Can

enter lungs and cause damage.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing and wash it

before reuse. Get medical attention if symptoms occur.

Eye contact : Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Remove contact lenses, if present and easy to do.

Ingestion: Aspiration hazard if swallowed. Can enter lungs and cause damage. Ingestion may

cause gastrointestinal irritation and diarrhea. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an

unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation : Not expected under normal use.

Skin contact: Defatting to the skin.,dryness,cracking

Eye contact : Not expected under normal use.

Ingestion: nausea or vomiting

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

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SECTION 4: First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Use personal protective equipment as required.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO2. water spray (fog) or foam.

Unsuitable extinguishing

: Do not use water jet.

media

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion

products

: In a fire, hazardous decomposition products may be produced. carbon oxides (CO,

CO2) nitrogen oxides sulfur oxides metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see Section 8). Keep unnecessary personnel away. Avoid breathing vapor or mist. Provide adequate ventilation.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Evacuate area.

6.2 Environmental precautions

: Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Do not allow any potentially contaminated water, including rain water, runoff from fire fighting or spills, to enter any waterway, sewer or drain.

6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. For large spills, dike spilled material or otherwise contain it to ensure runoff does not reach a waterway. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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SECTION 6: Accidental release measures

6.4 Reference to other sections

: See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in

eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Storage temperature : Store between the following temperatures: 5 to 40°C (41 to 104°F).

Shelf life : 24 months

7.3 Specific end use(s)

Recommendations : Observe technical data sheet/instructions for use. **Industrial sector specific** : Observe technical data sheet/instructions for use.

solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Mineral oil **	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2018).
	OEL, 8-h TWA: 5 mg/m³ 8 hours. Form: mist
	EU OEL (Europe).
	STEL: 10 mg/m³ 15 minutes.
	TWA: 5 mg/m³ 8 hours.
Mineral oil	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 12/2018).
	OEL, 8-h TWA: 5 mg/m³ 8 hours. Form: mist
	EU OEL (Europe).
	STEL: 10 mg/m³ 15 minutes.
	TWA: 5 mg/m³ 8 hours.
Distillates (petroleum), hydrotreated heavy	Ministry of Social Affairs and Employment, Legal limit values
naphthenic	(Netherlands, 7/2021). []
0 (0 - 4 4 3 - 4 4	OEL, 8-h TWA: 5 mg/m³ 8 hours. Form: mist
2-(2-butoxyethoxy)ethanol	Ministry of Social Affairs and Employment, Legal limit values
	(Netherlands, 7/2021). Absorbed through skin.
	OEL, 8-h TWA: 50 mg/m³ 8 hours.
	STEL,15-min: 100 mg/m³ 15 minutes.

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SECTION 8: Exposure controls/personal protection

EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values

TWA: 67.5 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

STEL: 101.2 mg/m³ 15 minutes. STEL: 15 ppm 15 minutes.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Naphtha (petroleum), hydrotreated	DNEL	Long term	0.41 mg/m ³	General	Systemic
heavy	5	Inhalation		population	
	DNEL	Long term	1.9 mg/m ³	Workers	Systemic
	DNEL	Inhalation	178.57 mg/	General	Local
	DINEL	Long term Inhalation	m ³	population	Local
	DNEL	Long term Oral	300 mg/kg	General	Systemic
	DIVLL	Long term oral	bw/day	population	Oysternic
	DNEL	Long term Dermal	300 mg/kg	General	Systemic
			bw/day	population	-,5.5
	DNEL	Long term Dermal	300 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Short term	640 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	837.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Short term	1066.67	Workers	Local
	DATE	Inhalation	mg/m³	0	0
	DNEL	Short term	1152 mg/	General	Systemic
	DNEL	Inhalation Short term	m ³	population Workers	Cuatamia
	DINEL	Inhalation	1286.4 mg/ m³	vvoikeis	Systemic
Sulfonic acids, petroleum, calcium	DNEL	Long term Oral	0.8333 mg/	General	Systemic
salts	DIVLL	Long term oral	kg bw/day	population	Oysternic
Julio	DNEL	Long term Dermal	1.667 mg/	General	Systemic
			kg bw/day	population	-,5.5
	DNEL	Long term	2.9 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	3.33 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	11.75 mg/	Workers	Systemic
		Inhalation	m³	_	
	DNEL	Long term Dermal	0.513 mg/	General	Local
	DATE		cm²	population	
	DNEL	Long term Dermal	1.03 mg/ cm ²	Workers	Local
oleic acid, compound with (Z)-N-	DNEL	Long term Oral	5 µg/kg bw/	General	Systemic
octadec-9-enylpropane-1,3-diamine (2:1)	DIVEL	Long tom Ordi	day	population	- Gyotolillo
()	DNEL	Long term Dermal	5 μg/kg bw/	General	Systemic

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term Dermal	day 14 µg/kg bw/day	population Workers	Systemic
	DNEL	Long term Inhalation	17.4 µg/m³	General population	Systemic
	DNEL	Long term Inhalation	98.4 μg/m³	Workers	Systemic
2-(2-butoxyethoxy)ethanol	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	40.5 mg/m ³		Local
	DNEL	Long term Inhalation	40.5 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	60.7 mg/m ³	General population	Local
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	67.5 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	101.2 mg/ m³	Workers	Local

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Engineering controls should be considered as the first line of protection against adverse exposure to harmful substances. Administrative controls and PPE should be used in the absence of engineering controls or as supplemental controls where engineering controls are insufficient in reducing specific exposures to an acceptable level

Individual protection measures

Eye/face protection

: If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields

Skin protection

Hand protection

: For operations where prolonged or repeated skin contact may occur, impervious gloves should be worn The following glove type may be suitable for handling this product Protective gloves complying with EN374

nitrile rubber Glove Thickness : \geq 0.38 mm Break through time : \geq 480 minutes butyl rubber Glove Thickness : \geq 0.64 mm Break through time : \geq 480 minutes

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Always ensure that gloves are free from defects and that they are stored and used correctly. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Wear work clothing with long sleeves.

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SECTION 8: Exposure controls/personal protection

Respiratory protection

: No personal respiratory protective equipment normally required. In case of inadequate ventilation wear respiratory protection. If heated and ventilation is inadequate, use respirator which will protect against organic vapor and dust/mist. Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.

This information is based on the state in which the specific product is delivered and on the intended use specified within this SDS. This information is provided based on literature reference, manufacturer specifications and recommendations and/or derived by analogy with similar substances. The level of protection and types of exposure controls will vary depending on potential exposure conditions.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure regular inspection, cleaning and maintenance of equipment and machines.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process

Thermal hazards

: Not expected under normal use. Not relevant/applicable due to nature of the product.

equipment will be necessary to reduce emissions to acceptable levels.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid. [Thixotropic agents]

Color : Brown.

Odor : Hydrocarbon. **Odor threshold** : Not available. На : Not available. Melting point/freezing point : Not available. Initial boiling point and

boiling range

: Not available.

Flash point : Closed cup: 65°C [ASTM D 93]

Evaporation rate : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available.

explosive limits

Vapor pressure

: Not available. : Not available.

Vapor density **Density** : 0.84 g/cm³ [15.5°C] Solubility(ies) : Not available.

Miscible with water No.

Partition coefficient: n-octanol/: Not applicable.

water

Auto-ignition temperature : Not available. **Decomposition temperature** : Not available.

: Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt) Viscosity

Explosive properties : Not applicable. Oxidizing properties : Not applicable.

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Section 9. Physical and chemical properties

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

VOC content : 1 %

65 % 1999/13/EC

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific measures identified.

10.5 Incompatible materials: Strong oxidizing materials. strong acids. strong alkalis

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity : Based on available data, the classification criteria are not met.

Numerical measures of toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum),	LC50 Inhalation Vapor	Rat	8500 mg/m ³	4 hours
hydrotreated heavy				
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
Sulfonic acids, petroleum, calcium salts	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
calcium bis (dinonylnaphthalenesulphonate)	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Oral	Rat	>4000 mg/kg	-
oleic acid, compound with (Z)-N-octadec-	LD50 Dermal	Rat	>2000 mg/kg	-
9-enylpropane-1,3-diamine (2:1)				
	LD50 Oral	Rat	>2000 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	3384 mg/kg	-

Irritation/Corrosion

: Based on available data, the classification criteria are not met.

Product/ingredient name	Result	Species	Score	Exposure	Observation
calcium bis (dinonylnaphthalenesulphonate)	Skin - Moderate irritant	Rabbit	-	0.5 MI	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-

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SECTION 11: Toxicological information

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met.

Specific target organ toxicity (single

: Based on available data, the classification criteria are not met.

exposure)

Specific target organ toxicity (repeated : Based on available data, the classification criteria are not met.

exposure)

Product/ingredient name	Category	Route of exposure	Target organs
oleic acid, compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)	Category 2	-	-

Aspiration hazard: Aspiration hazard if swallowed. Can enter lungs and cause damage.

Product/ingredient name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Naphtha (petroleum), hydrotreated heavy	ASPIRATION HAZARD - Calegory I

Other information : None identified.

Information on the likely routes of exposure

Inhalation : Aspiration hazard if swallowed. Can enter lungs and cause damage.

Skin contact: Defatting to the skin. May cause skin dryness and irritation.

Eye contact : No known significant effects or critical hazards.

Ingestion: Aspiration hazard if swallowed. Can enter lungs and cause damage.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: Not expected under normal use.

Skin contact: Defatting to the skin.,dryness,cracking

Eye contact: Not expected under normal use.

Ingestion: nausea or vomiting

Delayed and immediate effects and also chronic effects from short and long term exposure

None identified.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

No known significant effects or critical hazards.

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SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Naphtha (petroleum), hydrotreated heavy	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >1000 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 >1000 mg/l	Fish - Oncorhynchus mykiss	96 hours
Sulfonic acids, petroleum, calcium salts	Acute EC50 >100 mg/l	Algae - Scenedesmus subspicatus	72 hours
	Acute EC50 >100 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 5.7 to 9.7 mg/l	Fish - Pimephales promelas	96 hours
oleic acid, compound with (Z)-N-octadec- 9-enylpropane-1,3-diamine	Acute EC50 0.41 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
(2:1)			
,	Acute EC50 0.048 mg/l Acute LC50 1.34 mg/l	Daphnia - Daphnia magna Fish - Danio rerio	48 hours 96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Naphtha (petroleum), hydrotreated heavy	-	10 to 2500	high
2-(2-butoxyethoxy)ethanol	1	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods

: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Empty containers or liners may retain some product residues. Empty containers retain product residue and can be hazardous. Care should be taken when handling emptied containers that have not been cleaned or rinsed out.

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SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

Annex XVII - Restrictions : Not applicable.

on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles

Substances of very high concern

This product does not contain candidate substances of very high concern at a concentration => 0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Other EU regulations

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

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SECTION 15: Regulatory information

Product/ingredient name	List name	Name on list	Classification	Notes
Distillates (petroleum), hydrotreated heavy naphthenic	Netherlands Carcinogenic Chemicals	(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310	Carc.	-
Naphtha (petroleum), hydrotreated heavy	Netherlands Carcinogenic Chemicals	(complexe) aardolie- en steenkoolderivaten EG nrs. beginnend met 232, 263, 265-275, 277, 278, 283-285, 287, 289, 291-298, 300, 302, 305-310	Carc.	-
	Netherlands Mutagenic Substances	aardoliegassen en residuen EG nrs. beginnend met 232, 265-267, 268-273, 274, 277, 283-285, 287, 289, 292, 293, 295, 296, 298, 302, 305, 307, 308-310, 306	Muta.	

Water Discharge Policy (ABM)

: Z(1) Non biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioacumulative potential/ toxicity or persistence). Decontamination effort: Z

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative PNEC = Predicted No Effect Concentration

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SECTION 16: Other information

RRN = REACH Registration Number

SGG = Segregation Group

Key literature references and sources for data

: CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/20081

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulation [Regulation (EC) No. 1907/2006]

Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

Safety data sheets of raw materials, global regulatory body information, scientific

literature, and testing data.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Asp. Tox. 1, H304	Calculation method

Full text of classifications [CLP/GHS]

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Asn Tox 1	ASPIRATION HAZARD - Category 1

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1B SKIN SENSITIZATION - Category 1B

STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Training advice

: Users of this product should be provided the information in this safety data sheet, including possible hazards, safe handling, and proper use of chemical products.

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Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/ environmental regulations. The information contained herein is based on data available to us and is correct to the best of our knowledge, information and belief at the date of its publication. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

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