

# SAFETY DATA SHEET Prefere 5642

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

1.1 Product identifier

Product name : Prefere 5642

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

**Use of the substance/**: Industrial/Professional Use: Hardener. Woodworking industry.

mixture

1.3 Details of the supplier of the safety data sheet

**Supplier** : Dynea AS

P.O.Box 160, N-2001 Lillestrøm

Norway

Tel. +47 63897100 Fax. +47 63897610

e-mail address of person

responsible for this SDS

: sds@dynea.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number**: Not available.

**Supplier** 

**Telephone number** : +47 63897100

Hours of operation : 24 hours

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

**Hazard statements** : Not classified.

**Supplemental label**: Safety data sheet available on request.

elements

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#### **SECTION 2: Hazards identification**

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

#### **Special packaging requirements**

Not applicable.

#### 2.3 Other hazards

Other hazards which do not result in classification

: May form explosible dust-air mixture if dispersed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Combustible.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Kaolin	EC: 310-194-1 CAS: 1332-58-7	≥10 - ≤25	Not classified.	[2]
Starch	REACH #: Annex IV EC: 232-679-6 CAS: 9005-25-8	≥10 - ≤25	Not classified.	[2]
ammonium chloride	REACH #: 01-2119487950-27 EC: 235-186-4 CAS: 12125-02-9 Index: 017-014-00-8	<10	Acute Tox. 4, H302 Eye Irrit. 2, H319	[1] [2]
			See Section 16 for the full text of the H statements declared above.	

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 or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### <u>Type</u>

- 11 Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Inhalation

: Move exposed person to fresh air. Get medical attention if symptoms occur. 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.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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#### **SECTION 4: First aid measures**

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person

> is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

General : Move the victim to a safe area as soon as possible. If unconscious, place in recovery

position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Allow the victim to rest in a well-ventilated area.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

: Exposure to airborne concentrations above statutory or recommended exposure Inhalation

> limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following

exposure.

#### Over-exposure signs/symptoms

**Eve contact** : Adverse symptoms may include the following:

> irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

#### 4.3 Indication of any immediate medical attention and special treatment needed

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

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

Specific treatments : No specific treatment.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use alcohol-resistant foam or water spray (mist).

Unsuitable extinguishing

media

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Take precautionary measures against static discharges. May form explosible dust-air mixture if dispersed.

Hazardous combustion

products

carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

halogenated compounds metal oxide/oxides

#### 5.3 Advice for firefighters

Special precautions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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: Decomposition products may include the following materials:

# **SECTION 5: Firefighting measures**

#### 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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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".

#### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### 6.3 Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.

#### Large spill

: Approach the release from upwind. Move containers from spill area. Use sparkproof tools and explosion-proof equipment. Prevent entry into sewers, water courses, basements or confined areas. Avoid creating dusty conditions and prevent wind dispersal. Vacuum or sweep up material and place in a designated, labelled waste container.

#### 6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

#### Protective measures

: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

#### 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

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# **SECTION 7: Handling and storage**

Store in accordance with local regulations. Store away from incompatible materials (see Section 10). Eliminate all ignition sources. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Keep container dry.

7.3 Specific end use(s)

Recommendations : Not available. Industrial sector specific : Not available.

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
Kaolin	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 2 mg/m³ 8 hours. Form: respirable dust
Starch	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 10 mg/m³ 8 hours. Form: inhalable dust TWA: 4 mg/m³ 8 hours. Form: respirable dust
ammonium chloride	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 20 mg/m³ 15 minutes. Form: Fume TWA: 10 mg/m³ 8 hours. Form: Fume

# procedures

**Recommended monitoring**: 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
ammonium chloride	DNEL	Long term Dermal	190 mg/kg bw/day	Workers	Systemic
		Long term Inhalation	33,5 mg/m³	Workers	Systemic
		Long term Inhalation	9,9 mg/m³	Consumers	Systemic
	DNEL	Long term Dermal	114 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Oral	11,4 mg/ kg bw/day	Consumers	Systemic

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# **SECTION 8: Exposure controls/personal protection**

#### **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
ammonium chloride	PNEC	Fresh water	1,2 mg/l	-
	PNEC	Fresh water	11,2 mg/l	-
	PNEC	Sewage Treatment	16,2 mg/l	-
		Plant		
	PNEC	Soil	0,163 mg/kg dwt	-

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

**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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection**: Use eye protection according to EN 166, designed to protect against powders and

dusts. Recommended: Safety glasses with side shields.

**Hand protection**: If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN 374 and provide employee skin care programmes.

Recommended: Protective Index 6 / Breakthrough time >480 minutes: neoprene

rubber 0.7 mm thickness or nitrile rubber 0.4 mm thickness

Other skin protection : Wear work clothing with long sleeves. Handling of product where, due to high

pressure, speed or force, large quantities of dust are generated and dispersed Wear

dust-resistant protective clothing.

**Respiratory protection**: Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. No

personal respiratory protective equipment normally required.

Short term exposure / Low exposure : disposable particulate mask ; particulate

filter (P2)

**Environmental exposure** 

controls

: Emissions from ventilation or work process equipment should be checked to ensure

they comply with the requirements of environmental protection legislation.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state : Solid. [Powder.]
Colour : Greyish-white. [Light]
Odour : None identified.
Odour threshold : Not available.

**pH** : 5 to 6 [Conc. (% w/w): 3,3%]

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.

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# SECTION 9: Physical and chemical properties

Upper/lower flammability or

explosive limits

: Not available.

: Not available. Vapour pressure : Not available. Vapour density Relative density : Not available. Dispersible in water

Solubility

**Auto-ignition temperature** 

**Decomposition temperature** 

Partition coefficient: n-octanol/: Not available.

water

: Not available. : Not available.

**Viscosity** Not applicable. **Explosive properties** : Fine dust clouds may form explosive mixtures with air.

**Oxidising properties** : Not available.

9.2 Other information

**VOC** content (Without volume

exclusion)

: 0 % (w/w)

0 g/l

# **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

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges.

Prevent dust accumulation.

10.5 Incompatible materials

: Reactive or incompatible with the following materials:

oxidizing materials

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

#### **Potential Adverse effects**

Inhalation

: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Adverse symptoms may include the following:

respiratory tract irritation

coughing

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

Adverse symptoms may include the following:

irritation redness

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# **SECTION 11: Toxicological information**

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
mmonium chloride	LD50 Oral	Rat - Male, Female	1410 mg/kg	-
	LD50 Oral	Rat - Male, Female	>2000 mg/kg	-

ammonium chloride: Harmful if swallowed.

#### **Acute toxicity estimates**

Product	ATE value
Øral	24888,8 mg/kg

**Product Conclusion/** Summary

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
mmonium chloride	Skin - Oedema Skin - Erythema/Eschar	Rabbit Rabbit	0		48 hours 48 hours

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

**Eyes** : ammonium chloride: Irritating to eyes.

**Product Conclusion/** 

**Summary** 

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

#### **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
ammonium chloride	skin	Guinea pig	Not sensitizing

Skin : ammonium chloride: Not sensitizing

**Product Conclusion/** 

**Summary** 

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

#### **Chronic toxicity**

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
mmonium chloride	OECD 471 Bacterial Reverse Mutation Test -	Experiment: In vitro Subject: Bacteria Metabolic activation: + & - Experiment: In vitro Subject: Mammalian-Animal Experiment: In vivo Subject: Mammalian-Animal	Positive Positive Negative

**Product Conclusion/ Summary** 

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

**Carcinogenicity** 

**Product Conclusion/** 

**Summary** 

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

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# **SECTION 11: Toxicological information**

#### Reproductive toxicity

**Product Conclusion/** 

**Summary** 

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

**Teratogenicity** 

**Product Conclusion/** 

**Summary** 

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

#### Specific target organ toxicity (single exposure)

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

#### Specific target organ toxicity (repeated exposure)

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

**Aspiration hazard** 

**Product Conclusion/** 

**Summary** 

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

Interactive effects : No specific data.

Other information : No specific data.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ammonium chloride	EC50 1618 mg/l Fresh water	Micro-organism	30 minutes Static
	NOEC 26,8 mg/l Marine water	Algae - Navicula sp.	10 days Static
	Acute EC50 101 mg/l Fresh water	Daphnia - Daphnia magna	48 hours Static
	Acute LC50 209 mg/l	Fish - Cyprinus carpio	96 hours Semi- static
	Chronic NOEC 14,6 mg/l Fresh water	Daphnia - Daphnia magna	21 days Static
	Chronic NOEC 11,8 mg/l	Fish - Pimephales promelas	28 days Flow through

**Conclusion/Summary**: Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ammonium chloride	-3,2	-	low

#### 12.4 Mobility in soil

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# **SECTION 12: Ecological information**

Soil/water partition coefficient (K<sub>oc</sub>)

: Not available.

**Mobility** : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable. vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible.

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. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities

with jurisdiction.

Hazardous waste : Yes.

**Packaging** 

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

**Special precautions**: This material and its container must be disposed of in a safe way. Empty containers

or liners may retain some product residues. Avoid dispersal of spilt material and

runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADD/DID	ADM	IMPO	IATA
	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	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.	No.
Additional information	-	-	-	-

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# **SECTION 14: Transport information**

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 Transport in bulk according to Annex II of Marpol and the IBC Code

: 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 authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Not applicable.

#### Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Not listed

Industrial emissions (integrated pollution prevention and control) - Water

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

### **National regulations**

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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.

**Inventory list** 

**Australia**: All components are listed or exempted.

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# **SECTION 15: Regulatory information**

: At least one component is not listed in DSL but all such components are listed in Canada

NDSL.

: MI components are listed or exempted. China : All components are listed or exempted. Europe

Japan inventory (ENCS): Not determined. Japan

Japan inventory (ISHL): Not determined.

: Not determined. Malavsia

: MI components are listed or exempted. **New Zealand Philippines** : All components are listed or exempted. Republic of Korea : MI components are listed or exempted.

: Not determined. **Taiwan Thailand** : Not determined. : Not determined. Turkey

: MI components are listed or exempted. **United States** 

: Not determined. **Viet Nam** 

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

: ATE = Acute Toxicity Estimate

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

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

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

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

<u> </u>	
H302	Harmful if swallowed.
11002	Training it swallowed.
H319	Causes serious eye irritation.
11010	Caases serious eye irritation.

#### Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Eve Irrit. 2, H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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