

# SAFETY DATA SHEET

# AGS 3505

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

1.1. Product identifier Trade name AGS 3505 Product no. 3505 Unique formula identifier (UFI) XH60-T0CW-D00D-VY0E 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture Graffiti protection remover Uses advised against None known. 1.3. Details of the supplier of the safety data sheet Company and address **Trion Tensid AB** Svederusgatan 1-3 SE-75450 Uppsala Sweden +46 18 15 61 90 www.trion.se Contact person William Stomilovic E-mail info@trion.se Revision 24/01/2023 SDS Version 5.0 Date of previous version 29/09/2022 (4.0) 1.4. Emergency telephone number Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures". **SECTION 2: Hazards identification** 

# 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s)





```
Signal word
Danger
Hazard statement(s)
Causes skin irritation. (H315)
Causes serious eye damage. (H318)
Safety statement(s)
General
```

#### Prevention

Wear eye protection/protective gloves/protective clothing. (P280)

#### Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Immediately call a POISON CENTER/doctor. (P310)

Storage

#### Disposal

-

#### Hazardous substances

None known.

```
Additional labelling
```

UFI: XH60-T0CW-D00D-VY0E

#### 2.3. Other hazards

#### ▼ Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

#### 3.1. ▼Substances

Not applicable. This product is a mixture.

#### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
benzyl alcohol	CAS No.: 100-51-6	10-15%	Acute Tox. 4, H302 Acute Tox. 4, H332	[9]
	EC No.: 202-859-9		·	
	UK-REACH:			
	Index No.: 603-057-00-5			
2-(2-butoxyethoxy)ethanol diethylene glycol	CAS No.: 112-34-5	5-10%	Eye Irrit. 2, H319	[1], [3]
monobutyl ether	EC No.: 203-961-6			[0]
	UK-REACH:			
	Index No.: 603-096-00-8			



1-butylpyrrolidin-2-one	CAS No.: 3470-98-2 EC No.: 222-437-8 UK-REACH: Index No.:	5-10%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	
2-aminoethanol	CAS No.: 141-43-5 EC No.: 205-483-3 UK-REACH: Index No.: 603-030-00-8	3-5%	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Acute Tox. 4, H332 STOT SE 3, H336 (SCL: 5.00 %)	[1]
ammonia%	CAS No.: 1336-21-6 EC No.: 215-647-6 UK-REACH: Index No.: 007-001-01-2	<1%	Skin Corr. 1B, H314 STOT SE 3, H336 (SCL: 5.00 %) Aquatic Acute 1, H400 (M=1)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available. Other information

- [1] European occupational exposure limit.
- [3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

[9] Identified by EU as one of 26 specific fragrance ingredients, known to cause allergic contact dermatitis (Regulation (EC) No 1223/2009 on cosmetic products)

Labelling of contents according to Detergents Regulation (EC) No 648/2004 as retained and amended in UK law

#### Perfumes (BENZYL ALCOHOL)

< 5%

· Anionic surfactants

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

#### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water/water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

#### ▼ Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice



immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

#### SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO2)

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

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

Limit spillage and collect using granular absorbent or similar materials, and dispose of it in accordance with the regulations on dangerous waste.

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

# SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Because of the danger of self-ignition, any waste from the product, spray mist and soiled rags etc. are to be kept in a fire-proof place in air-tight containers, alternatively the waste is to be burned.

The product should be tested for peroxides before distillation or evaporation and tested for peroxide formation or discarded after 1 year.



Peroxide formation may be present anywhere in the container, including the sides, bottom, exterior and threaded cap. Peroxide formation in ppm concentrations may not be visually observable and must be identified through the use of appropriate testing procedures. If any of the following conditions exist, the material may be explosively unstable and will require stabilization prior to use:

1. Material appears to be degraded and or contaminated.

2. Material appears to be discolored.

3. Deterioration or distortion of storage container.

4. Thermal shock (sunlight).

5. Age of material exceeds recommended storage time.

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers and store protected from moisture and light. Containers should be dated when opened and tested periodically for the presence of peroxides. Do not exceed storage time limits.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

## Recommended storage material

Always store in containers of the same material as the original container.

Storage temperature

# 4 - 25 Celcius

#### Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 7.3. ▼ Specific end use(s)

This product should only be used for applications quoted in section 1.2.

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

#### 8.1. Control parameters

2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Long term exposure limit (8 hours) (ppm): 10
Long term exposure limit (15 minutes) (ppm): 15
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 101,2
2-aminoethanol
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2,5
Short term exposure limit (15 minutes) (ppm): 3
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 7,6
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002. EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### DNEL

1-butylpyrrolidin-2-one

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Long term – Systemic	Inhalation	17,4 mg/m3



effects - General population		
Long term – Systemic effects - Workers	Inhalation	70,5 mg/m3
Long term – Systemic effects - General population	Oral	2,5 mg/kg bw/day
Short term – Systemic effects - General population	Oral	2,5 mg/kg bw/day
2-(2-butoxyethoxy)etha	anol diethylene glycol monobutyl ether	
Duration	Route of exposure	DNEL
Long term – Systemic effects - Workers	Dermal	20 mg/kg/day
Long term – Local effects - Workers	Inhalation	67,5 mg/kbm 10 ppm
Long term – Systemic effects - Workers	Inhalation	67,5 mg/kbm 10 ppm
Short term – Local effects - Workers	Inhalation	101,2 mg/kbm
2-aminoethanol		
Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	0,24 mg/sqm
Long term – Systemic effects - Workers	Dermal	1 mg/kg/day
Long term – Local effects - General population	Inhalation	2 mg/kbm
Long term – Local effects - Workers	Inhalation	3,3 mg/kbm
Long term – Systemic effects - General population	Inhalation	2 mg/kbm
effects - General	Inhalation	2 mg/kbm 3,3 mg/kbm
effects - General population Long term – Systemic		
effects - General population Long term – Systemic effects - Workers Long term – Systemic effects - General	Inhalation	3,3 mg/kbm
effects - General population Long term – Systemic effects - Workers Long term – Systemic effects - General population	Inhalation	3,3 mg/kbm



effects - Workers		
Long term – Systemic effects - Workers	Inhalation	14 mg/m3
Short term – Systemic effects - Workers	Inhalation	36 mg/m3
Short term – Systemic effects - Workers	Oral	6,8 mg/kg bw/d
enzyl alcohol		
Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	8 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	20 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	40 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	5,4 mg/m3
Long term – Systemic effects - Workers	Inhalation	22 mg/m3
Short term – Systemic effects - General population	Inhalation	27 mg/m3
Short term – Systemic effects - Workers	Inhalation	110 mg/m3
Long term – Systemic effects - General population	Oral	4 mg/kg bw/day
Short term – Systemic effects - General population	Oral	20 mg/kg bw/day
exyl D-glucoside		
Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	357000 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	595000 mg/kg bw/day



population		
Long term – Systemic effects - Workers	Inhalation	420 mg/m3
Long term – Systemic effects - General population	Oral	35,7 mg/kg bw/day

#### PNEC

1-butylpyrrolidin-2-one

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	0,8 mg/L
Freshwater sediment	Single	6,336 mg/kg
Marine water	Single	0,08 mg/L
Marine water sediment	Single	06336 mg/kg
Sewage treatment plant	Continuous	30,62 mg/L
Soil	Single	0,7955 mg/kg
Water	Single	1 mg/L

# 2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether

Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	1 mg/L
Freshwater sediment	Single	4,4 mg/kg
Marine water	Single	0,1 mg/L
Marine water sediment	Single	0,44 mg/kg
Sewage treatment plant	Single	200 mg/L
Soil	Single	0,32 mg/kg

2-aminoethanol

Route of exposure	Duration of Exposure	PNEC
Freshwater		0,085 mg/L
Freshwater sediment		0,434 mg/kg
Intermittent release		0,028 mg/L
Marine water		0,0085 mg/L
Marine water sediment		0,0434 mg/kg
Sewage treatment plant		100 mg/L
Soil		0,0367 mg/kg

ammonia ....%



Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	0,0011 mg/L
Marine water	Single	0,011 mg/L
benzyl alcohol		
Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	1 mg/L
Freshwater sediment	Single	5,27 mg/kg
Marine water	Single	0,1 mg/L
Marine water sediment		0,527 mg/kg
Sewage treatment plant	Single	39 mg/L
Soil	Single	0,456 mg/kg
Water	Continuous	2,3 mg/L
hexyl D-glucoside		
Route of exposure	Duration of Exposure	PNEC
Freshwater	Single	0,176 mg/L
Freshwater sediment	Single	0,722 mg/kg
Marine water	Single	0,018 mg/L
Marine water sediment	Single	0,072 mg/kg
Sewage treatment plant	Single	100 mg/L
Soil	Single	0,654 mg/kg

#### 8.2. ▼Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis. General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

## Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

#### ▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

#### Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

#### No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only UKCA marked protective equipment. Respiratory Equipment



Туре	Class	Colour	Standards
Respiratory protection is not needed in the event of adequate ventilation	-	-	-

# Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	R

# Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,4	>480	EN374-2	

# Eye protection

Туре	Standards	
Wear safety glasses with side shields.	EN166	

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state
Liquid
Colour
Yellowish
▼ Odour / Odour threshold
Ammonia odor
pH 10 F
10,5
Density (g/cm <sup>3</sup> )
0.998
Kinematic viscosity
Testing not relevant or not possible due to the nature of the product.
▼ Particle characteristics
Does not apply to liquids.
Phase changes
Melting point/Freezing point (°C)
Testing not relevant or not possible due to the nature of the product.
Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.
Boiling point (°C)
<100
Vapour pressure
Testing not relevant or not possible due to the nature of the product.

 $\cup$ 



Relative vapour density Testing not relevant or not possible due to the nature of the product. Decomposition temperature (°C) Testing not relevant or not possible due to the nature of the product. Data on fire and explosion hazards Flash point (°C) 101 Ignition (°C) Testing not relevant or not possible due to the nature of the product. Auto flammability (°C) 435 Lower and upper explosion limit (% v/v) Not applicable - based on structure Solubility Solubility in water Insoluble n-octanol/water coefficient Testing not relevant or not possible due to the nature of the product. Solubility in fat (q/L) Testing not relevant or not possible due to the nature of the product. 9.2. Other information ▼ Other physical and chemical parameters No data available. SECTION 10: Stability and reactivity 10.1. Reactivity No data available. 10.2. Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage". 10.3. Possibility of hazardous reactions None known. 10.4. Conditions to avoid None known.

#### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

#### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

#### SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law Acute toxicity

Product/substance	benzyl alcohol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1230 mg/kg ·



Other information	
Product/substance	benzyl alcohol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	2000 mg/kg ·
Other information	
Product/substance	benzyl alcohol
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>4178 mg/m3 ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>29 ppm (2h) ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	2410 mg/kg ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50



Result	2764 mg/kg ·
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	300-2000 mg/kg ·
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg ·
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	1720 mg/kg
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	1025 mg/kg
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Rat
Route of exposure	Oral



Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	
Product/substance	ammonia%
Test method	
Species	Human
Route of exposure	Oral
Test	LD lo
Result	43 mg/kg ·
Other information	
Product/substance	ammonia%
Test method	
Species	Human
Route of exposure	Inhalation
Test	LD lo
Result	5000 ppm ·
Other information	
n corrosion/irritation	

Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Causes serious eye damage. Respiratory sensitisation



Product/substance	hexyl D-glucoside
Test method	
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

#### Skin sensitisation

Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	OECD 406
Species	Guinea pig
Result	No adverse effect observed (not sensitising)
Other information	

#### Germ cell 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.

#### STOT-single exposure

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

#### STOT-repeated exposure

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

#### Aspiration hazard

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

#### 11.2. Information on other hazards

#### ▼Long term effects

The product contains substances that cause serious eye damage. Contact with these substances can cause irreversible effects on the eye / serious eye damage.

- ▼ Endocrine disrupting properties
- None known.
- ▼ Other information None known.

#### SECTION 12: Ecological information

#### 12.1. Toxicity

Product/substance	benzyl alcohol
Test method	
Species	Fish
Compartment	
Duration	48 hours
Test	LC50



Result	646 mg/L ·
Other information	
Product/substance	benzyl alcohol
Test method	
Species	Algae
Compartment	Algae
Duration	96 hours
Test	LOEC
Result	
Other information	640 mg/L ·
Product/substance	
	benzyl alcohol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	230 mg/L ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	1300 mg/l ·
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Daphnia
Compartment	
Duration	72 hours
Test	EC50
Result	>100 mg/l ·
Other information	-



Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Species	Algae
Compartment	
Duration	96 hours
Test	EC50
Result	>100 mg/l ·
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L ·
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	130 mg/L ·
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>100 mg/L ·
Other information	-
Product/substance	2-aminoethanol
Test method	



SpeciesFishCompartment:Duration6hoursTest150Result150Other information:2minoethanolProduct/substanceJaminoethanolSpeciesJaphinaOurarion4hoursCompartment:200Uration650Result650Result650Result2minoethanolProduct/substance650Result650Result2minoethanolProduct/substance2minoethanolProduct/substance1SpeciesAgaeResult1Species1Species1Species2sionResult500Compartment:1Product/substance1Species <th></th> <th></th>		
CompartmentDuration96 hoursTestLCSOResult125 mg/L •Product/substance2-aminoethanolTest method-SpeciesDaphniaCompartment-Uration86 hoursGeso65 of JCOther information-Product/substance86 hoursCompartment-Product/substance65 of JCOther information-Product/substance8. hoursProduct/substance2-aminoethanolOther information-Product/substance2-aminoethanolTest method-SpeciesAgaeCompartment-Product/substance2-aminoethanolTest method-Product/substance2-aminoethanolCompartment-Product/substance12-boursProduct/substance12-boursResult2-song/LProduct/substance6-song/LCompartment-Uration6-boursProduct/substance6-boursCompartment-Uration6-boursProduct/substance6-boursResult10-omg/LProduct/substance10-omg/LProduct/substanceheylD-glucosideProduct/substanceheylD-glucosideProduct/substanceheylD-glucosideProduct/substanceheylD-glucosideProduct/substanceheylD-glucosideProduct/substance </td <td>Species</td> <td>Fish</td>	Species	Fish
strategieTestLCSOResultSorg/L-Other information		
TestIcs0Result15 mg/LOther information	Duration	96 hours
ResultIsonylOrder information	Test	
DeterinformationProduct/substancea-minoethanolTest method	Result	
Test method         Species       Daphnia         Compartment       48 hours         Duration       48 hours         Test       650         Result       65 mg/L         Other information	Other information	
Test methodSpeciespaphiaGompartmentPoration& NoursaResultSon/LOther informationProduct/substaneaminoethanolSpeciesJaminoethanolCompartmentProduction2 Son/LProduction2 Son/LSpeciesSon/LSpeciesSon/LProduction2 Son/LProduction2 Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/Son/LSpeciesSon/So	Product/substance	2-aminoethanol
Compartment         Figure 1           Compartment         48 hours           Test         650           Result         650m/L           Other information	Test method	
CompartmentDuration4a hoursTestECS0Result6s mg/LOther information	Species	Daphnia
Test       ECSO         Result       65 mg/L         Other information	Compartment	
TestESOResult6 mg/LOther information	Duration	48 hours
Result         5s mg/L           Other information         -           Product/substance	Test	
Other informationProduct/substanceaminoethanolTest method	Result	
Test method         Species       Algae         Compartment       2 hours         Duration       EC50         Result       2,5 mg/L         Other information       Kasyl D-glucoside         Product/substance       hasyl D-glucoside         Species       fish         Outation       10 mg/L         Duration       500         Product/substance       fish         Outpartment       10 mg/L         Product/substance       10 mg/L         Product/substance       6 hours         Product/substance       10 mg/L         Product/substance       keyl D-glucoside         Product/substance       second         Product/substance       fish         Product/substance       second         Product/substance       hayl D-glucoside         Product/substance       hayl D-glucoside         Product/substance       hayl D-glucoside         Product/substance       hayl D-glucoside         Fertimetion       second         Product/substance       hayl D-glucoside         Fertimetion       second         Product/substance       hayl D-glucoside         Product/substance       hayl D	Other information	
Test methodSpeciesAgaeCompartmentDuration2 hoursTest620Result2.50Product/substancehaylo-glucosideProduct/substancehaylo-glucosideSpecies5ishOrapartmentPruration10 mg/LResult10 mg/LProduct/substance10 mg/LFerserscoloSpeciesscoloProduct/substance10 mg/LResultscoloSpecies <td>Product/substance</td> <td>2-aminoethanol</td>	Product/substance	2-aminoethanol
Compartment         Duration       2 hours         Test       EC50         Result       2,5 mg/L         Other information	Test method	
CompartmentDuration2 hoursTestEC50Result2,5 mg/LOther informationNay D-glucosideProduct/substancehsyl D-glucosideSpeciesFishCompartment96 hoursTestLC50Result0.0 mg/L -Product/substance>10 mg/L -Product/substanceheyl D-glucosideFishStandeCompartmentSpeciesProduction%10 mg/L -FishStandeResultNamyL -Product/substanceheyl D-glucosideFishSpeciesSpeciesBaphnia	Species	Algae
TestECS0Result2,5 m/LOther information	Compartment	
Result2,5 mg/LResult,5 mg/LProduct/substancehexyl D-glucosideTest method-SpeciesFishCompartment-Duration96 hoursTestL50Result100 mg/L -Other information-Product/substance-Frest method-Speciesang/L -Species-Baylance-Species-Diration-Species-Species-Baylance-Species<	Duration	72 hours
Other information       hexyl D-glucoside         Product/substance       hexyl D-glucoside         Test method       Fish         Species       Fish         Compartment       100 mg/L         Fest       100 mg/L -         Result       >100 mg/L -         Other information       100 mg/L -         Froduct/substance       hexyl D-glucoside         Forduct/substance       >100 mg/L -         Froduct/substance       hexyl D-glucoside         Froduct/substance       hexyl D-glucoside         Forduct/substance       hexyl D-glucoside         Forduct/substance       hexyl D-glucoside         Forduct/substance       hexyl D-glucoside         Forduct/substance       festimethod	Test	EC50
Other informationProduct/substancehexyl D-glucosideTest methodFishSpeciesFishCompartment6 hoursDuration96 hoursTestLC50Result>100 mg/L ·Other information+Product/substancehexyl D-glucosideTest methodSpeciesSpeciesDaphnja	Result	2,5 mg/L
Test method         Species       Fish         Compartment         Duration       96 hours         Test       LC50         Result       >100 mg/L         Other information       Hayl D-glucoside         Froduct/substance       hayl D-glucoside         Species       Daphnia	Other information	
Test methodSpeciesFishCompartment96 hoursDuration96 hoursTestL50Result>100 mg/L -Other informationHayl D-glucosideTest methodSpeciesSpeciesDaphnia	Product/substance	hexyl D-glucoside
Compartment       Duration     96 hours       Test     LC50       Result     >100 mg/L •       Other information     -       Product/substance     hexyl D-glucoside       Species     Daphnia	Test method	
Duration96 hoursTestLC50Result>100 mg/L - 0Other information-Product/substancehexyl D-glucosideTest method-SpeciesDaphnia	Species	Fish
TestLC50Result>100 mg/L ·Other information-Product/substancehexyl D-glucosideTest method-SpeciesDaphnia	Compartment	
Result     >100 mg/L·       Other information     + exyl D-glucoside       Frest method     - explored       Species     Daphnia	Duration	96 hours
Other information       Product/substance       hexyl D-glucoside       Test method       Species     Daphnia	Test	LC50
Product/substance     hexyl D-glucoside       Test method        Species     Daphnia	Result	>100 mg/L ·
Test method Daphnia	Other information	
Species Daphnia	Product/substance	hexyl D-glucoside
	Test method	
Compartment	Species	Daphnia
	Compartment	





Other information       Product/substance       Alcohols, C9-C11, Ethoxylated       Test method       Species       Daphnia       Compartment       Duration       48 hours		
Product/substanceAcohols, C9-C11, EthoxylatedTest methodSpeciesaphniaCompartmentUration48 hoursTest650Result>1mg/LOrder informationProduct/substanceAcohols, C9-C11, EthoxylatedSpeciesAcohols, C9-C11, EthoxylatedTest methodSpeciesAgaeCompartmentUration21 hoursCompartmentProduct/substanceFCS0ResultC10Species1mg/LOther informationProduct/substance1mg/LSpecies1mg/LOther informationProduct/substance1mg/LSpecies650Result0 hoursCompartmentUration61 hoursSpecies96 hoursResult0.80 mg/LCompartmentUration96 hoursSpecies3ge/BainelSpecies96 hoursTest methodTest methodSpecies1ghniaCompartmentUration96 hoursSpecies1ghniaCompartmentTest methodSpecies1ghniaSpecies1ghniaCompartmentSpecies1ghniaCompartmentSpecies1ghniaCompartmentSpecies1ghniaCompartmentSpecies1ghniaCompartmentSpecies1ghnia <t< td=""><td>Result</td><td>&gt;1 mg/L</td></t<>	Result	>1 mg/L
Test method           Species         Daphnia           Compartment         48 hours           Duration         48 hours           Result         1 mg/L           Other information         Kohols, C9-C11, Ethoxylated           Product/substance         Alcohols, C9-C11, Ethoxylated           Test method         Kohols, C9-C11, Ethoxylated           Compartment         Fig           Product/substance         Algae           Test         Kesin           Product/substance         Fig           Product/substance         Fig           Species         Fish           Compartment         Species           Species         Namonia%           Compartment         Species           Product/substance         Algunonia%           Test method         Species           Species         Daphnia           Compartment         Species	Other information	
SpeciesDependenceCompartmento48 hoursDuration650Result> 1mg/LOther information-Product/substaneAlcolos, C9-C11, EthoxylatedAgenet-SpeciesAlgaCompartment-Product/substaneAlgaResult-Species210 JoursResult-Product/substane-Agenet-Species-Result-Species-Result-Product/substane-amonia%-Species-<	Product/substance	Alcohols, C9-C11, Ethoxylated
Compartment           Duration         48 hours           Test         ECS0           Result         > tom/L           Other information	Test method	
Duration48 hoursTestEcs0Result> Img/LOther information-Product/substaneAlchols, C9-C11, EthoxylatedTest method-SpeciesAlgaCOther information-Duration72 hoursResult20 hoursResult> 1mg/LOther information-Product/substaneFindProduct/substane> 1mg/LResult> 1mg/LOther information-Product/substaneFishCompartment-Product/substaneFishOther information-Product/substaneGo hoursOther information-Product/substaneGo hoursOther information-Product/substaneGo hoursResultQuantianOther information-Product/substaneGo hoursResult-Duration-Product/substaneGo hoursInformation-Product/substane-Product/substane-Information-Product/substane-Duration-Product/substane-Information-Product/substane-Information-Product/substane-Information-Product/substane-Information-Product/substane-Information-	Species	Daphnia
Test         ECSO           Result         > Img/L           Other information         -           Product/substance         Alcohols, C9-C11, Ethoxylated           Test method         -           Species         Algae           Compartment         -           Duration         72 hours           Test         eCSO           Result         2 hours           Test         eCSO           Result         1 mg/L           Other information         -           Product/substance         armonia%6           Test method         -           Species         fsh           Compartment         -           Species         fsh           Compartment         -           Product/substance         fsh           Gompartment         -           Species         fsh           Compartment         -           Product/substance         (So           Result         0,8 mg/L           Cother information         -           Product/substance         Immonia%6           Test method         -           Species         Ophnia <tr< td=""><td>Compartment</td><td></td></tr<>	Compartment	
Result         >1 mg/L           Other information         Img/L           Product/substance         Alcohols, C9-C11, Ethoxylated           Test method         Img/L           Species         Algae           Compartment         Img/L           Duration         F2 hours           Test         EC50           Result         >1 mg/L           Other information         Img/L           Product/substance         ammonia%           Test method         Img/L           Species         Fish           Compartment         Img/L           Product/substance         ammonia%           Test method         Img/L           Species         Fish           Compartment         Img/L           Product/substance         Img/L           Other information         Img/L           Product/substance         Img/L           Other information         Img/L           Product/substance         Img/L           Other information         Img/L           Product/substance         Img/L           Product/substance         Img/L           Outprinformation         Img/L           Product/subs	Duration	48 hours
Other information       Alcohols, C9-C11, Ethoxylated         Product/substance       Alcohols, C9-C11, Ethoxylated         Test method       Image         Species       Algae         Compartment       Etsimation         Duration       72 hours         Result       Ec50         Result       1 mg/L         Other information       Image         Product/substance       anmonia%         Species       Fish         Compartment       Image         Product/substance       Image         Species       Alsonorial%         Compartment       Image         Product/substance       Alsonorial%         Compartment       Image         Duration       96 hours         Compartment       Image         Product/substance       anmonia%         Result       0.89 mg/L         Other information       Image         Product/substance       anmonia%         Species       Daphnia         Generation       Species         Species       Daphnia         Group Turetter       Species         Species       Daphnia         Grompartment <td>Test</td> <td>EC50</td>	Test	EC50
Product/substanceAlcohols, C9-C11, EthoxylatedTest methodSpeciesAlgaeCompartmentTuration7 hoursTestECS0Result> 1m/LOther informationTest methodSpeciesamonia%CompartmentSpeciesShoursOutrationSpeciesShoursOutrationSpeciesSolo <td>Result</td> <td>&gt;1 mg/L</td>	Result	>1 mg/L
Test method       Jagae         Species       Algae         Compartment       2 hours         Duration       2 hours         Test       EC50         Result       > 1 mg/L         Other information       ammonia%         Test method       secies         Species       Fish         Compartment       secies         Duration       ammonia%         Test method       secies         Species       Fish         Compartment       secies         Duration       96 hours         Compartment       secies         Product/substance       ammonia%         Result       0,89 mg/L         Other information       secies         Product/substance       ammonia%         Test method       secies         Species       aphnia         Compartment       secies         Species       paphia         Compartment       secies         Species       Sehours         Species       Sehours         Species       Sehours         Species       Sehours         Species       Sehours      <	Other information	
SpeciesAgaeCompartmentDuration72 hoursTestEC50Result1mg/LOther informationTorduct/substanceammonia%SpeciesFishCompartmentDuration66 hoursTest method6.0Species9.6 hoursCompartmentProduct/substance9.8 mg/LOuter information1.50Product substance9.8 mg/LDuration9.8 mg/LSpecies0.9 mg/LSpecies1.50Result0.9 mg/LOther information1.50Species3.6 hoursTest method1.50Test method1.50Species3.6 hoursTest method1.50Test method1.50Species3.60Spec	Product/substance	Alcohols, C9-C11, Ethoxylated
Compartment         Z hours           Duration         Z hours           Test         ECS0           Result         Img/L           Other information         mmonia%           Product/substance         Fish           Species         Fish           Compartment         Immonia%           Product/substance         Fish           Quration         Species           Product/substance         Fish           Compartment         Immonia%           Product/substance         Anomala           Product/substance         Anomala           Product/substance         Immonia%           Product/substance         Immonia%           Product/substance         Anomaia%           Product/substance         Immonia%           Species         Ophnia           Species         Duphnia           Species         Spenia           Quation         Species           Species         Ophnia           Compartment         Species           Species         Species           Species         Species           Species         Species           Species         Spo	Test method	
Duration22 hoursTestEC50Result> Img/LOther information-Product/substance-Product/substance-SpeciesFishCompartment-Duration96 hoursResult0.65 OncompartmentProduct/substance-Product/substance-Duration-Product/substance-Duration-Product/substance-Product/substance-Product/substance-Product/substance-Duration-Product/substance-Duration-Product/substance-Duration-Species-Duration-Species-Duration-Species-Duration-Species-Duration-Species-Displanet-Species-Binania-Species-Displanet-Species-Displanet-Species-Displanet-Species-Binania-Species-Species-Species-Displanet-Species-Displanet-Species-Displanet-Displanet- <td>Species</td> <td>Algae</td>	Species	Algae
Test       EC50         Result       >1 mg/L         Other information       ammonia%         Product/substance       ammonia%         Species       Fish         Compartment       -         Duration       96 hours         Result       0,89 mg/L         Other information       -         Product/substance       ammonia%         Puration       96 hours         Result       0,89 mg/L         Other information       -         Product/substance       ammonia%         Product/substance       ammonia%         Species       0aphnia         Outpartment       -         Product/substance       ammonia%         Product/substance       ammonia%         Species       0aphnia         Compartment       -         Product/substance       aphonia         Species       0aphnia         Compartment       -         Product/substance       septies         Species       0aphnia         Compartment       -         Product/substance       septies         Species       0aphnia	Compartment	
Result       >1 mg/L         Other information       ammonia%         Product/substance       ammonia%         Species       Fish         Compartment       96 hours         Test       250         Result       0,89 mg/L         Other information       96 hours         Product/substance       0,89 mg/L         Other information	Duration	72 hours
Pring aOther informationProduct/substanceammonia%Test methodSpeciesFishCompartmentDuration96 hoursResult0,89 mg/LOther informationProduct/substanceammonia%Test methodSpeciesaphnia%Test methodSpecies0,91 main%TurationSpeciesbophnia%TurationSpecies6 hoursSpecies50 hoursSpecies50 hoursSpecies6 hoursSpecies6 hoursSpecies6 hoursSpecies6 hoursSpecies9 ho	Test	EC50
Product/substanceammonia%Test methodFishSpeciesFishCompartment96 hoursDuration96 hoursTestLC50Result0,89 mg/LOther informationmmonia%Test method9SpeciespaphniaSpecies0aphniaDuration96 hoursDuration96 hoursSpecies0aphniaCompartment96 hoursFurtion96 hoursSpecies96 hours<	Result	>1 mg/L
Test method Fighting and	Other information	
SpeciesFishCompartmentDuration96 hoursTestLC50Result0,89 mg/LOther informationProduct/substanceammonia%Test methodSpeciesDaphniaCompartmentDuration56 hoursForduct56 hoursDuration56 hoursFest56 hoursTest56 hoursTest56 hoursTest56 hoursTest56 hoursTest56 hoursTest56 hoursTest56 hoursTest61 hoursTest<	Product/substance	ammonia%
Compartment         Duration       96 hours         Test       Lc50         Result       0,89 mg/L         Other information	Test method	
Duration96 hoursTestLC50Result0,8 mg/LOther information	Species	Fish
TestLC50Result0,89 mg/LOther information	Compartment	
Result0,89 mg/LOther informationProduct/substanceammonia%Test methodSpeciesDaphniaCompartmentDuration96 hoursTestEC50Result0,101 mg/L	Duration	96 hours
Other information       ammonia%         Product/substance       ammonia%         Test method	Test	LC50
Product/substance ammonia% Test method Species Daphnia Compartment 5 Duration 66 hours Test Ec50 Result 0,101 mg/L	Result	0,89 mg/L
Test method         Species       Daphnia         Compartment         Duration       96 hours         Test       EC50         Result       0,101 mg/L	Other information	
Species     Daphnia       Compartment	Product/substance	ammonia%
Compartment       Duration       Fest       EC50       Result       0,101 mg/L	Test method	
Compartment       Duration     96 hours       Test     EC50       Result     0,101 mg/L	Species	Daphnia
Test     EC50       Result     0,101 mg/L	Compartment	
TestEC50Result0,101 mg/L	Duration	96 hours
Result 0,101 mg/L	Test	
	Result	
	Other information	



# 12.2. Persistence and degradability

Product/substance	benzyl alcohol
Biodegradable	Yes
Test method	OECD 301 D
Result	>90%
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Biodegradable	Yes
Test method	OECD 301 B
Result	100%
Product/substance	1-butylpyrrolidin-2-one
Biodegradable	Yes
Test method	
Result	
Product/substance	2-aminoethanol
Biodegradable	Yes
Test method	
Result	
Product/substance	hexyl D-glucoside
Biodegradable	Yes
Test method	OECD 301 D
Result	>70%
Product/substance	Alcohols, C9-C11, Ethoxylated
Biodegradable	Yes
Test method	OECD 301 D
Result	
Product/substance	ammonia%
Biodegradable	Yes
Test method	OECD 301 A
Result	<70%

#### 



BCF	No data available.
Other information	
Product/substance	2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether
Test method	
Potential bioaccumulation	No
LogPow	1,0000
BCF	No data available.
Other information	
Product/substance	1-butylpyrrolidin-2-one
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	2-aminoethanol
Test method	
Potential bioaccumulation	No
LogPow	-1,91
BCF	No data available.
Other information	
Product/substance	hexyl D-glucoside
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Potential bioaccumulation	No
LogPow	No data available.
BCF	No data available.
Other information	
Product/substance	ammonia%



Test method	
Potential bioaccumulation	Νο
LogPow	-0,64
BCF	No data available.
Other information	

#### 12.4. Mobility in soil

ammonia ....%

LogKoc = 1.14, High mobility potential.

#### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

#### 12.6. ▼Endocrine disrupting properties

None known.

#### 12.7. ▼ Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

#### SECTION 13: Disposal considerations

#### ▼ Waste treatment methods

Product is covered by the regulations on hazardous waste.

To the extent the material has not been subject to regular tests of peroxide formation the waste shall be treated as explosive waste.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### EWC code

20 01 29\* Detergents containing dangerous substances

# Specific labelling

Not applicable.

#### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

#### SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### Additional information

Not dangerous goods according to ADR, IATA and IMDG.

#### 14.6. Special precautions for user

#### Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.



SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Restrictions for application

Restricted to professional users.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

# Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances Not applicable.

#### ▼ UK-REACH, Annex XVII

2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether is subject to restrictions, UK-REACH annex XVII (entry 55).

#### Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents as retained and amended in UK law. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

#### Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

#### 15.2. Chemical safety assessment

No

#### ▼ SECTION 16: Other information

#### Full text of H-phrases as mentioned in section 3

H302, Harmful if swallowed.

H312, Harmful in contact with skin.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H332, Harmful if inhaled.

H336, May cause drowsiness or dizziness.

H400, Very toxic to aquatic life.

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level



EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Additional information The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law. ▼ The safety data sheet is validated by RO Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en