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 EC No.: 202-859-9 UK-REACH: Index No.: 603-057-00-5	10-15%	Acute Tox. 4, H302 Acute Tox. 4, H332	[9]
2-(2-butoxyethoxy)ethanol diethylene glycol monobutyl ether	CAS No.: 112-34-5 EC No.: 203-961-6 UK-REACH: Index No.: 603-096-00-8	5-10%	Eye Irrit. 2, H319	[1], [3]

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_x)

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 (8 hours) (mg/m³): 67,5
Short term exposure limit (15 minutes) (ppm): 15
Short term exposure limit (15 minutes) (mg/m³): 101,2
2-aminoethanol
Long term exposure limit (8 hours) (ppm): 1
Long term exposure limit (8 hours) (mg/m³): 2,5
Short term exposure limit (15 minutes) (ppm): 3
Short term exposure limit (15 minutes) (mg/m³): 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)ethanol 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
Long term – Systemic effects - Workers	Inhalation	3,3 mg/kbm
Long term – Systemic effects - General population	Oral	3,75 mg/kg

ammonia ....%

Duration	Route of exposure	DNEL
Short term – Systemic	Dermal	6,8 mg/kg bw/d

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

benzyl 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

hexyl 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
Long term – Systemic effects - General	Inhalation	124 mg/m3

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

Type	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.	-	-	

Hand protection

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

Eye protection

Type	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
10,5

Density (g/cm³)
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.

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 (g/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	

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	
Duration	96 hours
Test	LOEC
Result	640 mg/L ·
Other information	
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	

Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	125 mg/L ·
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	65 mg/L
Other information	
Product/substance	2-aminoethanol
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	2,5 mg/L
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	>100 mg/L ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Daphnia
Compartment	

Duration	48 hours
Test	EC50
Result	>100 mg/L ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	>100 mg/L ·
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	NOEC
Result	>100 mg/L
Other information	
Product/substance	hexyl D-glucoside
Test method	
Species	Daphnia
Compartment	
Duration	21 days
Test	NOEC
Result	>1-10 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50

Result	>1 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Daphnia
Compartment	
Duration	48 hours
Test	EC50
Result	>1 mg/L
Other information	
Product/substance	Alcohols, C9-C11, Ethoxylated
Test method	
Species	Algae
Compartment	
Duration	72 hours
Test	EC50
Result	>1 mg/L
Other information	
Product/substance	ammonia ....%
Test method	
Species	Fish
Compartment	
Duration	96 hours
Test	LC50
Result	0,89 mg/L
Other information	
Product/substance	ammonia ....%
Test method	
Species	Daphnia
Compartment	
Duration	96 hours
Test	EC50
Result	0,101 mg/L
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%

12.3. Bioaccumulative potential

Product/substance	benzyl alcohol
Test method	
Potential bioaccumulation	No
LogPow	No data available.

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	No
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