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

1.1. Product Identifier

Product name	AUTO RINSE AID
Product form	Mixture

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

Main category use	Professional use
Use of the substance/mixture	Cleaning/washing agents and additives

1.3. Details of the supplier of the safety data sheet

Supplier	Wolf Laundry Ltd Unit 5B, Ashroyd Business Park, Platts Common, Barnsley South Yorkshire S74 9SB Tel: 0808 500 8043 info@wolflaundry.co.uk

1.4. Emergency telephone number

Emergency telephone	Wolf Laundry Ltd: Tel: 0808 500 8043 (Mon - Fri 8am-6pm)
National emergency telephone number	NHS Direct 111 (GB) National Poisons Information Service Tel: +44 344 892 0111 (UK) - Medical Professionals Only National Poisons Information Centre Tel: +353 (01) 809 2566 (Ireland) - Healthcare Professionals only (24 hour service)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

Hazard pictograms

Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/ doctor.
Contains	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide, Alcohols, C13-15, branched and linear, ethoxylated

Detergent labelling | 15 - < 30% phosphates, < 5% anionic surfactants, < 5% enzymes, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% soap, Contains 1,2-BENZOISOTHIAZOL-3(2H)-ONE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/Information on ingredients

3.2. Mixtures

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide — 3-5%

CAS number: — | EC number: 932-051-8

Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

Alcohols, C13-15, branched and linear, ethoxylated — 3-5%

CAS number: 157627-86-6 | EC number: 931-954-4

Classification
Acute Tox. 4 - H302
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

Treated amorphous silica — <1%

CAS number: 2035064-87-8

Classification
Not Classified

ETHANEDIOL — <1%

CAS number: 107-21-1 | EC number: 203-473-3

Classification
Acute Tox. 4 - H302
STOT RE 2 - H373

subtilisin — <1%

CAS number: 9014-01-1 | EC number: 232-752-2

M factor (Acute) = 1

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Resp. Sens. 1 - H334
STOT SE 3 - H335
Aquatic Acute 1 - H400
Aquatic Chronic 2 - H411

potassium hydroxide — <1%

CAS number: 1310-58-3 | EC number: 215-181-3

Classification
Met. Corr. 1 - H290
Acute Tox. 4 - H302
Skin Corr. 1A - H314
Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention if symptoms are severe or persist. Remove affected person from source of contamination.
Inhalation	Unlikely route of exposure as the product does not contain volatile substances. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	May cause discomfort if swallowed. May cause stomach pain or vomiting.
Skin contact	May cause skin irritation.
Eye contact	Severe irritation, burning and tearing.

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

Notes for the doctor	Treat symptomatically.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting	If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb in vermiculite, dry sand or earth and place into containers. Flush spilled material into suitable retaining areas or container with large quantities of water. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

6.4. Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Usage precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Avoid contact with skin and eyes. Keep container tightly sealed when not in use.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Keep above the chemical's freezing point to avoid rupturing the container. Keep container tightly closed.
Storage class	Chemical storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Occupational exposure limits

Treated amorphous silica

Long-term exposure limit (8-hour TWA): 0.08 mg/m³ respirable dust

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3(Sk)
Short-term exposure limit (15-minute): WEL 104 mg/m3(Sk)

subtilisin

Long-term exposure limit (8-hour TWA): WEL 0.00004 mg/m³
Sen

potassium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.
Sen = Capable of causing occupational asthma.

PENTASODIUM TRIPHOSPHATE (CAS: 7758-29-4)

DNEL	Workers - Dermal; Short term systemic effects: 0.375 mg/kg bw/day Workers - Inhalation; Short term systemic effects: 0.661 mg/m³ Workers - Dermal; Long term systemic effects: 0.375 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 0.661 mg/l General population - Dermal; Short term systemic effects: 0.375 mg/kg General population - Inhalation; Short term systemic effects: 0.66 mg/kg bw/day General population - Oral; Short term systemic effects: 0.75 mg/kg General population - Oral; Long term systemic effects: 0.75 mg/kg bw/day General population - Inhalation; Long term systemic effects: 0.661 mg/m³ General population - Dermal; Long term systemic effects: 0.375 mg/kg bw/day

PNEC	-Fresh water; 0.005 mg/l -marine water; 0.005 mg/l -Intermittent release, Fresh water; 0.05 mg/l -Sediment (Freshwater); 0.19 mg/kg dw -Soil; 0.14 mg/kg dw

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

DNEL	Workers - Dermal; Long term systemic effects: 85 mg/kg bw/day Workers - Inhalation; Long term systemic effects: 6 mg/m³ Consumer - Dermal; Long term systemic effects: 42.5 mg/kg bw/day Consumer - Inhalation; Long term systemic effects: 1.5 mg/m³ Consumer - Oral; Long term systemic effects: 0.425 mg/kg bw/day
PNEC	-Fresh water; 0.268 mg/l -marine water; 0.0268 mg/l -Intermittent release; 0.055 mg/l -STP; 5.6 mg/l -Sediment (Freshwater); 8.1 mg/kg dw -Sediment (Marinewater); 8.1 mg/kg dw -Soil; 35 mg/kg dw

Distyryl Biphenyl Derivative (CAS: 27344-41-8)

DNEL	Workers - Dermal; Long term systemic effects: 53 mg/kg Consumer - Dermal; Long term systemic effects: 19 mg/kg Consumer - Oral; Long term systemic effects: 1.9 mg/kg Workers - Inhalation; Long term systemic effects: 20.5 mg/m³
PNEC	Fresh water; 0.0625 mg/l marine water; 0.00625 mg/l Intermittent release; 0.1028 mg/l STP; 100 mg/l Sediment (Freshwater); 198000 mg/kg Sediment (Marinewater); 19800 mg/kg Soil; 1 mg/kg

subtilisin (CAS: 9014-01-1)

DNEL	Workers - Inhalation; Long term systemic effects: 0.00006 mg/m³ Workers - Inhalation; Long term local effects: 0.00006 mg/m³ Consumer - Inhalation; Long term systemic effects: 0.000015 mg/m³ Consumer - Oral; Long term systemic effects: 1.8 mg/kg Consumer - Oral; Short term systemic effects: 3.6 mg/kg
PNEC	Fresh water; 0.0017 mg/l marine water; 0.00017 mg/l STP; 65000 µg/l Intermittent release; 0.0009 mg/l Soil; 0.568 mg/kg

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate ventilation if the airborne contamination exceeds occupational exposure limits
Eye/face protection	Safety glasses with side-shields (EN 166).
Hand protection	Chemical resistant PVC/Nitrilrubber gloves (to European standard EN 374 or equivalent). Thickness: 0,4 mm. Penetration time: >480 min (level 6). The selection of specific gloves for a

	specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.
Other skin and body protection	Wear suitable protective clothing (EN14605)
Hygiene measures	Do not eat, drink or smoke when using this product.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Opaque liquid.
Colour	White.
pH	pH (concentrated solution): 8-8.5
Melting point	>10°C
Initial boiling point and range	>100°C @ 760 mm Hg
Relative density	1.13-1.19 @ 20°C
Solubility(ies)	Miscible with water.
Viscosity	1000-1500 cP @ 20°C

9.2. Other information

Other information	Not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Oxidising agents. Reducing agents.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid	Avoid contact with: Oxidising agents. Reducing agents.

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation.

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.
ATE oral (mg/kg)	16,556.29

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation	May cause skin irritation.
Animal data	Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation	Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Based on available data the classification criteria are not met.

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Spray/mists may cause respiratory tract irritation. This is unlikely to occur but symptoms similar to those of ingestion may develop.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes. Symptoms following overexposure may include the following: Redness. Pain.
Acute and chronic health hazards	This product may cause skin and eye irritation. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash.
Route of exposure	Skin and/or eye contact Ingestion

Toxicological information on ingredients.

PENTASODIUM TRIPHOSPHATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,001.0

ATE dermal (mg/kg)	2,001.0

Distyryl Biphenyl Derivative

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,001.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rat
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} dust/mist mg/l)	3.9
Species	Rat

Carboxymethyl Cellulose

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	2,001.0
Species	Rat
ATE oral (mg/kg)	2,001.0
Acute toxicity - dermal	
Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC_{50} dust/mist mg/l)	5.6
Species	Rat
ATE inhalation (dusts/mists mg/l)	5.6

Treated amorphous silica

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	5,001.0
Species	Rat

1,2-benzisothiazol-3(2H)-one

Acute toxicity - oral	
ATE oral (mg/kg)	500.0
Acute toxicity - inhalation	
ATE inhalation (vapours mg/l)	0.5

subtilisin

Acute toxicity - oral	
Acute toxicity oral (LD_{50} mg/kg)	1,800.0
Species	Rat
ATE oral (mg/kg)	1,800.0

potassium hydroxide

Acute toxicity - oral	
ATE oral (mg/kg)	500.0

SECTION 12: Ecological Information

Ecotoxicity: Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Toxicity: Not considered toxic to fish.

Ecological information on ingredients.

PENTASODIUM TRIPHOSPHATE

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, : >1850 mg/l,
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >100 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC50, : 160 mg/l, Desmodesmus subspicatus
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	LOEC, 96 hours: 5 mg/l, Fish

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: >1-10 mg/l, Cyprinus carpio (Common carp)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >10-100 mg/l, Desmodesmus subspicatus EC10, 72 hours: 1.5 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC_{50}, 17 hours: 63 mg/l, PSEUDOMONAS PUTIDA
Chronic aquatic toxicity	
Chronic toxicity - fish early life stage	NOEC, 72 days: >0.1-1 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	EC_{20}, 32 days: 0.27 mg/l, Corbicula

Alcohols, C13-15, branched and linear, ethoxylated

Acute aquatic toxicity	
Acute toxicity - fish	LC_{50}, 96 hours: >1-10 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1-10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >1-10 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC10, : >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >0.1-1 mg/l, Daphnia magna

Distyryl Biphenyl Derivative

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >10 - <100 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >10 - <1000 mg/l, Scenedesmus subspicatus
Acute toxicity - microorganisms	EC_{50}, 4 hours: >1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >1 mg/l, Daphnia magna

Carboxymethyl Cellulose

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >21000 mg/l, Oncorhynchus mykiss (Rainbow trout)

1,2-benzisothiazol-3(2H)-one

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 1.6 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 2.94 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 0.11 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{20}, 3 hours: 3.3 mg/l, Activated sludge

subtilisin

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 8.2 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.09 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 0.290 mg/l, Pseudokirchneriella subcapitata EC10, 72 hours: 0.041 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	EC10, 32 days: 0.017 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	EC10, 21 days: 0.145 mg/l, Daphnia magna

potassium hydroxide

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 44 (24h) mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability	The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

Ecological information on ingredients.

Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxide

Biodegradation	OECD 301A - Degradation >70%: 28 days

Alcohols, C13-15, branched and linear, ethoxylated

Biodegradation	OECD 301B - Degradation >60%: OECD 303A - Degradation >=90%:
Chemical oxygen demand	2430 mg/g

Distyryl Biphenyl Derivative

Chemical oxygen demand	1507 mg/g

ETHANEDIOL

Biodegradation	OECD 301A - Degradation 90-100%:

1,2-benzisothiazol-3(2H)-one

Biodegradation	OECD 302B, STP - 90%:

subtilisin

Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.

Ecological information on ingredients.

ETHANEDIOL

Partition coefficient	log Kow: -1.36

1,2-benzisothiazol-3(2H)-one

Bioaccumulative potential	BCF: 6.95, Fish
Partition coefficient	log Kow: 0.7

subtilisin

Bioaccumulative potential	The product is not bioaccumulating.

12.4. Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

subtilisin

Mobility Not applicable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

subtilisin

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current UK criteria.

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

subtilisin

Other adverse effects Not available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal methods Dispose of in accordance with Local Authority regulations as special waste according to The Control of Special Waste Regulations 1996.

EURAL Code

SECTION 14: Transport Information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory Information

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

Drug Precursors Regulation (273/2004)

Danish product registration number

Danish national regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other Information

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate. LC50: Lethal Concentration to 50 % of a test population. LD50: Lethal Dose to 50% of a test population (Median Lethal Dose). EC_{50}: 50% of maximal Effective Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative.
Revision comments	Revision is due to general MSDS review
Revision date	04/07/2024
Revision	5
Supersedes date	09/07/2021
SDS number	8062/23627
Hazard statements in full	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.