

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

1.1. Product identifier

Product name	Wolf Flow Stain Pro
Product number	7212/23302
UFI	UFI: 75YM-K0KG-T004-QQ7T

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

Identified uses	Bleach
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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
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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	Sodium Percarbonate Peroxyhydrate, Alcohols, C13-15, branched and linear, ethoxylated
Detergent labelling	≥ 30% oxygen-based bleaching agents, 15 - < 30% phosphates, < 5% non-ionic surfactant

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

Sodium Percarbonate Peroxyhydrate CAS number: 15630-89-4 EC number: 239-707-6	30-50%
Classification Ox. Sol. 2 - H272 Acute Tox. 4 - H302 Eye Dam. 1 - H318	
SODIUM CARBONATE CAS number: 497-19-8 EC number: 207-838-8	10-15%
Classification Eye Irrit. 2 - H319	
Alcohols, C13-15, branched and linear, ethoxylated CAS number: 157627-86-6 EC number: 931-954-4	1-3%
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412	

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	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
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	Wash skin thoroughly with soap and water. Remove contaminated clothing. 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	Irritation of nose, throat and airway.
Ingestion	May cause stomach pain or vomiting. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact	Causes mild 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.
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SECTION 5: Fire fighting 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.

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. Avoid inhalation of dust.

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 Collect and place in suitable waste disposal containers and seal securely. 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. Keep container tightly sealed when not in use. Avoid handling which leads to dust formation.

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 Store in tightly-closed, original container in a dry, cool and well-ventilated place.

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

SODIUM CARBONATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ resp.dust

WEL = Workplace Exposure Limit.

Sodium Percarbonate Peroxyhydrate (CAS: 15630-89-4)

DNEL
Industry - Inhalation; Long term local effects: 5 mg/m³
Industry - Dermal; Long term local effects: 12.8 mg/cm³
Industry - Dermal; Long term local effects: 12.8
Consumer - Dermal; Short term local effects: 6.4 mg/cm³
Consumer - Dermal; Long term local effects: 6.4 mg/cm³

PNEC
- Fresh water; 0.035 mg/l
- marine water; 0.035 mg/l
- Water, Intermittent release; 0.035 mg/l
- STP; 16.24 mg/l

Sodium Chloride (CAS: 7647-14-5)

DNEL
Workers - Dermal; Short term systemic effects: 295.52 mg/kg/day
Workers - Inhalation; Short term systemic effects: 2068.62 mg/m³
Workers - Dermal; Long term systemic effects: 295.52 mg/kg/day
Workers - Inhalation; Long term systemic effects: 2068.62 mg/m³
General population - Dermal; Short term systemic effects: 126.65 mg/kg/day
General population - Inhalation; Short term systemic effects: 443.28 mg/m³
General population - Oral; Short term systemic effects: 126.65 mg/kg/day
General population - Oral; Long term systemic effects: 126.65 mg/kg/day
General population - Inhalation; Long term systemic effects: 443.28 mg/m³
General population - Dermal; Long term systemic effects: 126.65 mg/kg/day

PNEC
Fresh water; 5 mg/l
Soil; 4.86 mg/kg
STP; 500 mg/l

SODIUM CARBONATE (CAS: 497-19-8)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Inhalation; Long term local effects: 10 mg/m³

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 dw
General population - Inhalation; Short term systemic effects: 0.66 mg/kg bw/day
General population - Oral; Short term systemic effects: 0.75 mg/kg dw
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
- Soil; 0.14 mg/kg

Tetra acetyl ethylene diamine (CAS: 10543-57-4)

DNEL
- Dermal; : 20 mg/kg/day
- Inhalation; : 6.4 mg/m³

PNEC
Fresh water; 10 mg/l
marine water; 0.5 mg/l
Intermittent release; 10 mg/l

Soil; 5 mg/kg
Sediment (Freshwater); 2.5 mg/kg
STP; 10 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls	No specific ventilation requirements.
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	Granules.
Colour	White/off-white.
Odour	Mild.
pH	pH (diluted solution): 9.3-10.3 1 %
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Avoid contact with acids.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Will not polymerise.
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10.4. Conditions to avoid

Conditions to avoid	Avoid contact with acids.
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10.5. Incompatible materials

Materials to avoid	Strong acids.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Does not decompose when used and stored as recommended.
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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)	2,402.31
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	Dust may irritate the respiratory system. Symptoms following overexposure to dust may include the following: Coughing.
Ingestion	Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Skin contact	Causes mild skin irritation.
Eye contact	Severe irritation, burning and tearing.
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
 Inhalation

Toxicological information on ingredients.

Sodium Percarbonate Peroxyhydrate

Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	1,034.0
Species	Rat
ATE oral (mg/kg)	1,034.0
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)	1,200.0
Species	Rat
ATE inhalation (dusts/mists mg/l)	1,200.0

Sodium Chloride

Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	3,500.0
Species	Rat
ATE oral (mg/kg)	3,500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	10,001.0
Species	Rat
ATE dermal (mg/kg)	10,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC ₅₀ dust/mist mg/l)	43.0
Species	Rat
ATE inhalation (dusts/mists mg/l)	43.0

Sodium Bicarbonate

Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	4,220.0
Species	Rat
ATE oral (mg/kg)	4,220.0

PENTASODIUM TRIPHOSPHATE

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)	4,641.0
Species	Rabbit
ATE dermal (mg/kg)	4,641.0

Alcohols, C13-15, branched and linear, ethoxylated

Acute toxicity - oral	
Acute toxicity oral (LD ₅₀ mg/kg)	1,150.0
Species	Rat
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD ₅₀ mg/kg)	2,001.0
Species	Rat
ATE dermal (mg/kg)	2,001.0

Tetra acetyl ethylene diamine

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	Rat
ATE dermal (mg/kg)	2,001.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC ₅₀ dust/mist mg/l)	2.09
Species	Rat
ATE inhalation (dusts/mists mg/l)	2.09
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	NOAEL 90 mg/kg, Oral, Rat NOAEL 200 mg/kg, Dermal, Rat LOAEL 2000 mg/kg, Dermal, Rat

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 Based on available data the classification criteria are not met.

Ecological information on ingredients.

Sodium Percarbonate Peroxyhydrate

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 70.7 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 4.9 mg/l, Daphnia magna

Sodium Chloride

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 6750 mg/l, Fish

LC₅₀, 96 hours: 5840 mg/l, Lepomis macrochirus (Bluegill)

LC₅₀, 96 hours: 10610 mg/l, Pimephales promelas (Fat-head Minnow)

NOEC, 7 days: 4000 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 2024-4136 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: 3014 mg/l, Algae

Acute toxicity - microorganisms

IC₅₀, : > 1000 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates

LOEC, 21 days: 441 mg/l, Freshwater invertebrates

NOEC, 21 days: 314 mg/l, Freshwater invertebrates

SODIUM CARBONATE

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 300 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 200-227 mg/l, Daphnia magna

Acute toxicity - aquatic plants

IC₅₀, 72 hours: >2420 mg/l, Algae

PENTASODIUM TRIPHOSPHATE

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, : >1850 mg/l, Fish

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants

ErC50, : 160 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - fish early life stage

LOEC, 96 hours: 5 mg/l, Fish

Alcohols, C13-15, branched and linear, ethoxylated

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 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

Tetra acetyl ethylene diamine

Acute aquatic toxicity	
Acute toxicity - fish	LC ₅₀ , 48 hours: >500 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: > 140 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hours: >500 mg/l, Danio rerio (zebra fish)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >1000 mg/l, Daphnia magna NOEC, : 500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >1000 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: >1000 mg/l,
Acute toxicity - terrestrial	NOEC, 56 days: 500 mg/kg, Eisenia Fetida (Earthworm)

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.

Alcohols, C13-15, branched and linear, ethoxylated

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

Tetra acetyl ethylene diamine

Biodegradation	-Degradation >98%: 28 days -Degradation 90-100%: ~ 59 days -Degradation >90%: ~ 9 days
Chemical oxygen demand	1260 mg/g

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Ecological information on ingredients.

Sodium Chloride

Partition coefficient	log Pow: -3
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12.4. Mobility in soil

Mobility Soluble in water.

Ecological information on ingredients.

Sodium Chloride

Mobility

Soluble in water.

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.

Sodium Chloride

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.

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

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 addition of UFI number
Revision date	07/07/2021
Revision	3
Supersedes date	12/02/2019
SDS number	7212/23302
Hazard statements in full	H272 May intensify fire; oxidiser. H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.