



SAFETY DATA SHEET JANGRO BIOLOGICAL LAUNDRY CAPSULES

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

1.1. Product identifier

Product name	JANGRO BIOLOGICAL LAUNDRY CAPSULES
Product number	800-289-0075
Internal identification	BP005

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

Identified uses	Laundry detergent.
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1.3. Details of the supplier of the safety data sheet

Supplier	Jangro Limited Parklands 1A 3rd Floor Lostock Bolton BL6 4SD Tel. 01204 795955 Jangro (Europe) Ltd 6-9 Trinity Street, Dublin 2 D02 EY47 Ireland Tel.016177911
Contact person	For content of safety data sheet:, enquiries@jangrohq.net

1.4. Emergency telephone number

Emergency telephone	+44 (0) 1204 795 955 (Jangro)
National emergency telephone number	UK: In case of a medical emergency following exposure to a chemical call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 Ireland: For information or to report a poisoning incident contact The National Poisons Information Centre (01 8092166)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

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Hazard pictograms



Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P264 Wash hands thoroughly after handling. P302+P352 IF ON SKIN: Wash with plenty of water. P332+P313 If skin irritation occurs: Get medical advice/ attention. 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. P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P501 Dispose of contents/ container in accordance with local regulations.
Contains	SODIUM PERCARBONATE, SODIUM DODECYLBENZENESULFONATE
Supplementary precautionary statements	P102 Keep out of reach of children. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >0.1% published by the European Chemicals Agency (ECHA) under article 57 of the REACH regulation (as amended). This product is not classified as, nor contains substances classed as having endocrine disrupting characteristics at levels >0.1% by weight (according to Regulation (EU) 2018/605).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM CARBONATE	10-30%
CAS number: 497-19-8	EC number: 207-838-8
Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Irrit. 2 - H319	Xi;R36
SODIUM PERCARBONATE	10-30%
CAS number: 15630-89-4	EC number: 239-707-6
Classification	Classification (67/548/EEC or 1999/45/EC)
Ox. Sol. 3 - H272	Xn;R22. Xi;R41. O;R8.
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	

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SODIUM DODECYLBENZENESULFONATE		5-10%
CAS number: 68411-30-3	EC number: 270-115-0	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22. Xi;R38,R41.	
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Aquatic Chronic 3 - H412		
SODIUM METASILICATE PENTAHYDRATE		1-5%
CAS number: 10213-79-3	EC number: 229-912-9	
Classification		
Met. Corr. 1 - H290		
Skin Corr. 1A - H314		
STOT SE 3 - H335		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Provide eyewash station.
Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin contact	Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Inhalation	May cause respiratory irritation.
Ingestion	May cause discomfort if swallowed. Nausea, vomiting. Diarrhoea.
Skin contact	Causes skin irritation. Prolonged skin contact may cause redness and irritation.
Eye contact	Causes serious eye damage. A single exposure may cause the following adverse effects: Irritation and redness, followed by blurred vision.

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

Notes for the doctor	No specific recommendations.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Foam, carbon dioxide or dry powder.
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5.2. Special hazards arising from the substance or mixture

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Specific hazards	The product is non-combustible.
Hazardous combustion products	No known hazardous decomposition products.
5.3. Advice for firefighters	
Protective actions during firefighting	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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8. In case of spills, beware of slippery floors and surfaces.
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6.2. Environmental precautions

Environmental precautions	Collect and dispose of spillage as indicated in Section 13. Do not discharge into drains or watercourses or onto the ground.
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see Section 13.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container. Keep container dry. Protect from moisture. Protect from moisture.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

SODIUM CHLORIDE (CAS: 7647-14-5)

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DNEL

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

PNEC

- Fresh water; 5 mg/l
- Intermittent release; 19
- STP; 500 mg/l
- Soil; 4.86 mg/kg

SODIUM CARBONATE (CAS: 497-19-8)

DNEL

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

SODIUM PERCARBONATE (CAS: 15630-89-4)

DNEL

Workers - Inhalation; Long term local effects: 5 mg/m³
 Workers - Dermal; Long term local effects: 12.8 mg/cm²
 Workers - Dermal; Short term local effects: 12.8 mg/cm²
 General population - Dermal; Long term local effects: 6.4 mg/cm²
 General population - Dermal; Short term local effects: 6.4 mg/cm²

PNEC

- Fresh water; 0.035 mg/l
- marine water; 0.035 mg/l
- STP; 16.24 mg/l

SODIUM DODECYLBENZENESULFONATE (CAS: 68411-30-3)

DNEL

Industry - Inhalation; Long term systemic effects: 6 mg/m³
 Industry - Inhalation; Long term local effects: 6 mg/m³
 Industry - Dermal; Long term systemic effects: 85 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 1.5 mg/m³
 Consumer - Inhalation; Long term local effects: 1.5 mg/m³
 Consumer - Dermal; Long term systemic effects: 42.5 mg/kg/day
 Consumer - Oral; Long term systemic effects: 0.425 mg/kg/day

PNEC

- Fresh water; 0.268 mg/l
- marine water; 0.0268 mg/l
- Intermittent release; 0.0167 mg/l
- STP; 3.43 mg/l
- Sediment, Fresh water; 8.1 mg/kg
- Sediment, marine water; 6.8 mg/kg
- Soil; 35 mg/kg

STPP (CAS: 7758-29-4)

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DNEL	<p>Workers - Inhalation; Long term systemic effects: 0.661 mg/m³</p> <p>Workers - Inhalation; Short term systemic effects: 0.661 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 0.375 mg/kg/day</p> <p>Workers - Dermal; Short term systemic effects: 0.375 mg/kg/day</p> <p>General population - Inhalation; Long term systemic effects: 0.661 mg/m³</p> <p>General population - Inhalation; Short term systemic effects: 0.66 mg/m³</p> <p>General population - Dermal; Long term systemic effects: 0.375 mg/kg/day</p> <p>General population - Dermal; Short term systemic effects: 0.375 mg/kg/day</p> <p>General population - Oral; Long term systemic effects: 0.75 mg/kg/day</p> <p>General population - Oral; Short term systemic effects: 0.75 mg/kg/day</p>
PNEC	<p>- Fresh water; 0.005 mg/l</p> <p>- marine water; 0.005 mg/l</p> <p>- Sediment (Freshwater); 0.19 mg/kg</p> <p>- Soil; 0.14 mg/kg</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Personal protective equipment that provides appropriate eye and face protection should be worn.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Gloves made from the following material may provide suitable chemical protection: Rubber (natural, latex). Butyl rubber. Thickness: >0.5 mm Nitrile rubber. Thickness: >0.35 mm Polyvinyl chloride (PVC). For users with sensitive skin, it is recommended that suitable protective gloves are worn.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact. Use appropriate skin cream to prevent drying of skin.

Hygiene measures

When using do not eat, drink or smoke. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Use appropriate skin cream to prevent drying of skin.

Respiratory protection

Respiratory protection not required.

Environmental exposure controls

Avoid releasing into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Crystalline powder. Capsules
Colour	White with blue speckles

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Odour	Perfume.
Odour threshold	Not applicable. Not applicable.
pH	pH (diluted solution): 9.5-10.5 1% ww
Melting point	No information available.
Initial boiling point and range	Not applicable.
Flash point	The product is not flammable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	The product is not flammable.
Upper/lower flammability or explosive limits	Product is not considered to be flammable nor explosive
Other flammability	Not relevant.
Vapour pressure	Not applicable.
Vapour density	No information available.
Relative density	1 - 1.1 @ 20 Degrees C
Bulk density	No information available.
Solubility(ies)	Completely soluble in water.
Partition coefficient	Not technically possible for a mixture.
Auto-ignition temperature	No information available.
Decomposition Temperature	No specific test data are available.
Viscosity	Not relevant.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	The product contains a substance classified as oxidising. Does not meet the criteria for classification as oxidising.
Comments	Information given is applicable to the product as supplied.

9.2. Other information

Other information Not relevant.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable.

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10.4. Conditions to avoid

Conditions to avoid Do not mix with other household chemical products.

10.5. Incompatible materials

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Information given is based on data of the components and of similar products.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met. Calculation method.

ATE oral (mg/kg) 5,879.33

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met. Calculation method.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

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 Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Reproductive toxicity

Reproductive toxicity - fertility Does not contain any substances known to be toxic to reproduction.

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 Not classified.

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General information	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
Ingestion	May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.
Skin contact	Skin irritation should not occur when used as recommended. Prolonged and frequent contact may cause redness and irritation.
Eye contact	Causes serious eye damage. A single exposure may cause the following adverse effects: Severe irritation, burning, tearing and blurred vision. Corneal damage.

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2 Other information

Toxicological information on ingredients.

SODIUM PERCARBONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,034.0

Species Rat

ATE oral (mg/kg) 1,034.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1

Species Rabbit

ATE dermal (mg/kg) 2,000.1

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 2.3

Species Rat

SODIUM DODECYLBENZENESULFONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,080.0

Species Rat

ATE oral (mg/kg) 1,080.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

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ATE dermal (mg/kg) 2,001.0

SECTION 12: Ecological information

Ecotoxicity There are no data on the ecotoxicity of this product. Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Ecological information on ingredients.

SODIUM PERCARBONATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 70.7 hours: 48 mg/l, Pimephales promelas (Fat-head Minnow)
REACH dossier information.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.9 mg/l, Freshwater invertebrates
REACH dossier information.

SODIUM DODECYLBENZENESULFONATE

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 1.67 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 96 hours: 10 mg/l, Cyprinus carpio (Common carp)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 100 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product. The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in The Detergents Regulations (as amended).

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not technically possible for a mixture.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

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.

12.6. Endocrine disrupting properties

Endocrine disrupting properties

12.6. Other adverse effects

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Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not discharge into drains or watercourses or onto the ground.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Packaging is recyclable.

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 Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

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

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National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
 The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).
 The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 696) (as amended).
 The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended).
 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (as amended).
 The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EU legislation

European Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (as amended)
 European Regulation (EC) No 1907/2006 - Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended)
 European Regulation (EC) No 648/2004 on detergents (as amended)
 Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) 1907/2006.

Guidance

Workplace Exposure Limits EH40.
 CHIP for everyone HSG228.
 COSHH Essentials.
 Approved Classification and Labelling Guide (Sixth edition) L131.
 Safety Data Sheets for Substances and Preparations.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

DNEL: Derived No Effect Level.
 PNEC: Predicted No Effect Concentration.
 PBT: Persistent, Bioaccumulative and Toxic substance.
 vPvB: Very Persistent and Very Bioaccumulative.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.
 Revised formulation. Note: Finished product SDS take their revision history from the parent bulk liquid SDS. The revision data will show that of the parent liquid.

Revision date

11/01/2024

Revision

4

Supersedes date

26/02/2021

SDS number

21765

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Hazard statements in full

H272 May intensify fire; oxidiser.
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.
H319 Causes serious eye irritation.
H335 May cause respiratory 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.