

SAFETY DATA SHEET JANGRO PREMIUM LIMESCALE REMOVER

Compiled in Accordance with EU and GB REACH and CLP Regulations.

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

1.1. Product identifier

Product name JANGRO PREMIUM LIMESCALE REMOVER

Product number BC035-75

Internal identification 800-277-0146

Container size 750 ml

UFI UFI: H7TJ-PHUP-EP7K-9YD1

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

Identified uses Limescale remover.

Uses advised against Not for Oral Consumption. Do Not Mix With Bleach.

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 UK:

number 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

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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 P102 Keep out of reach of children.

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.

P501 Dispose of contents/ container in accordance with local regulations.

Contains D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Detergent labelling < 5% non-ionic surfactants, < 5% perfumes, Contains LINALOOL

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

CITRIC ACID ANHYDROUS 1-5%

CAS number: 77-92-9 EC number: 201-069-1

Classification
Eye Irrit. 2 - H319

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

1-5%

Classification Eye Dam. 1 - H318

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.

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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 symptoms are severe

or persist after washing. Show this Safety Data Sheet to the medical personnel.

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

General information Provide eyewash station.

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at

ambient temperature. In combination with Bleach can produce Chlorine gas - Check for

respiratory disorders.

Ingestion Unlikely exposure route without abuse. Symptoms will include, Sickness, possible Irritation of

GI Tract. A soapy taste may be reported.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Prolonged or repeated exposure may cause the following adverse effects: Irritation and

redness, followed by blurred vision. Corneal damage. Risk of serious damage to eyes.

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

Notes for the doctor Ensure skin and eyes are well rinsed to neutral pH. Check Mouth for evidence of irritation. If

mixed with bleach may produce Chlorine Gas, check for respiratory disorders.

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.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Toxic gases or vapours.

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. Treat the spilled material according to the instructions

in the clean-up section. Take care as floors and other surfaces may become slippery.

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.

6.3. Methods and material for containment and cleaning up

Methods for cleaning upStop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers.

Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains,

sewers or watercourses.

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 spilling. Avoid contact with skin and eyes. Wear protective

clothing as described in Section 8 of this safety data sheet. Avoid breathing vapour/spray. Do

not mix with other household chemical products. Do not mix with Bleach.

Advice on general occupational hygiene

Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using this product. Wash skin thoroughly after handling. Take off contaminated clothing and wash it before reuse. Use appropriate hand lotion to prevent defatting and cracking of skin.

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. Store at room

temperature. Keep out of the reach of children.

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

CITRIC ACID ANHYDROUS (CAS: 77-92-9)

DNEL Available hazard data do not support the need for a DNEL to be established for

other health effects.

PNEC - Fresh water; 0.44 mg/l

- marine water; 0.044 mg/l

- STP; >1000 mg/l

- Sediment (Freshwater); 34.6 mg/kg

- Sediment (Marinewater); 3.46 mg/kg

- Soil; 33.1

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES (CAS: 68515-73-1)

DNEL Workers - Inhalation; Long term systemic effects: 420 mg/m³

Workers - Dermal; Long term systemic effects: 595000 mg/kg/day General population - Inhalation; Long term systemic effects: 124 mg/m³ General population - Dermal; Long term systemic effects: 357000 mg/kg

General population - Oral; Long term systemic effects: 35.7 mg/kg

PNEC - Fresh water; 0.176 mg/l

- marine water; 0.0176 mg/l

- Intermittent release; 0.27 mg/l

- STP; 560 mg/l

- Sediment (Freshwater); 1.516 mg/l

- Sediment (Marinewater); 0.152 mg/l

8.2. Exposure controls

Protective equipment





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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. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). Neoprene. Nitrile rubber. Polyethylene. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. A break through time of >60 minutes is

suggested. Gloves should be inspected regularly for damage.

Other skin and body

protection

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

hand lotion to prevent defatting and cracking of skin.

Hygiene measures 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid. **Appearance**

Colour Clear Colourless.

Odour Perfumed.

Odour threshold Not applicable.

>2 - 2.5 Hq

Melting point Not applicable.

Initial boiling point and range Not determined but expected to be >90 Degrees C.

Flash point Not applicable. Not applicable. **Evaporation rate**

Not applicable. **Evaporation factor**

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability Not applicable. Vapour pressure Not applicable. Vapour density Not applicable.

~ 1.030 Relative density

Bulk density Not applicable.

Solubility(ies) Soluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not applicable.

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Viscosity No information available.

Explosive properties Not applicable

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Not applicable.

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 Under normal storage conditions this product is stable.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Mixing with Hypochorite Bleach based products will produce toxic Chlorine gas.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Avoid contact with hypochlorite bleach products. Avoid contact with alkalis.

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.

Acute toxicity - dermal

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

Acute toxicity - inhalation

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

Skin corrosion/irritation

Skin corrosion/irritation Not classified. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Calculation method.

Respiratory sensitisation

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

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Skin sensitisation

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

Germ cell mutagenicity

Genotoxicity - in vitroDoes 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.

General information This product has low toxicity.

Inhalation The product is considered to be a low hazard under normal conditions of use. Note contact

with Bleach may produce toxic Chlorine Gas.

Ingestion May cause irritation. Symptoms following overexposure may include the following: Stomach

pain. Nausea, vomiting.

Skin contact Skin irritation should not occur when used as recommended. Prolonged or repeated exposure

may cause the following adverse effects: Irritation. Redness. Dryness and/or cracking. Mild

dermatitis, allergic skin rash.

Eye contact Irritating to eyes. May cause serious eye damage. Severe irritation, burning, tearing and

blurred vision. Corneal damage.

11.2 Information on other hazards

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properties

11.2.1. Endocrine disrupting 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).

11.2.2 Other information None known

Toxicological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,001.0

mg/kg)

Species Rat

ATE oral (mg/kg) 2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,001.0

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Skin sensitisation

Skin sensitisation Not sensitising. REACH dossier information.

Germ cell mutagenicity

Genotoxicity - in vitro REACH dossier information. Negative.

Genotoxicity - in vivo REACH dossier information. Negative.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 100.81 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 101 mg/l, Daphnia magna

Acute toxicity -

microorganisms

EC₅₀, 6 hours: >560 mg/l,

Chronic aquatic toxicity

Chronic toxicity - aquatic

NOEC, 21 days: 1 mg/l, Daphnia magna

invertebrates

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.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Biodegradation Water - Degradation 100%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Partition coefficient log Pow: 1.72 REACH dossier information.

12.4. Mobility in soil

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

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

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Henry's law constant 0 Pa m³/mol @ 25°C

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

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).

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Results of PBT and vPvB No data available.

assessment

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

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. Normal use solutions are expected to be flushed to sewers.

Reuse or recycle products wherever possible.

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

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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

National regulations GB (UK) CLP and REACH Regulations.

EH40/2005 Workplace exposure limits.

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 Hazardous Waste Regulations 2005.

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)

(Amendment etc.) (EU Exit) Regulations 2019 (as amended).

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.

ECHA Guidance on the Application of the CLP Criteria. ECHA Guidance on the compilation of safety data sheets.

COSHH Essentials.

Technical Guidance WM2: Hazardous Waste.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Abbreviations and acronyms DNEL: Derived No Effect Level.

used in the safety data sheet PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

Revision comments This is the first issue.

Revision date 22/01/2024

Revision 2

Supersedes date 20/06/2023

JANGRO PREMIUM LIMESCALE REMOVER

SDS number 23258

Hazard statements in full H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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.
----- END OF SDS -----