

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 nu		
Emergency telephone	+44 (0) 1204 795 955 (Jangro)	
National emergency telephor number		
SECTION 2: Hazards identifi	cation	
2.1. Classification of the substance or mixture		
Classification (SI 2019 No. 7)		
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	 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	

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		
D-GLUCOPYRANOSE, OLIGOM	ERIC, C8-10 GLYCOSIDES	1-5%
D-GLUCOPYRANOSE, OLIGOM CAS number: 68515-73-1	ERIC, C8-10 GLYCOSIDES EC number: 500-220-1	1-5%

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 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 immedia	te 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 meas	sures	
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	e measures	
6.1. Personal precautions, pro	tective 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 precaution	S	
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 up	Stop 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 section		
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.	

SECTION 7: Handling and storage

7.1. Precautions for safe har	ndling
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 stora	age, 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 contr	rols/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/m ³ Workers - Dermal; Long term systemic effects: 595000 mg/kg/day General population - Inhalation; Long term systemic effects: 124 mg/m ³ General population - Dermal; Long term systemic effects: 357000 mg/kg General population - Oral; Long term systemic effects: 35.7 mg/kg
PNEC 8.2. Exposure controls	 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
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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

Appearance	Liquid.
Colour	Clear Colourless.
Odour	Perfumed.
Odour threshold	Not applicable.
рН	>2 - 2.5
Melting point	Not applicable.
Initial boiling point and range	Not determined but expected to be >90 Degrees C.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
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.
Relative density	~ 1.030
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.

Viscosity	No information available.
Explosive properties	Not applicable
Explosive under the influence	Not considered to be explosive.
of a flame	
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 rea	activity
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 decompositio	on products
Hazardous decomposition products	No known hazardous decomposition products.
SECTION 11: Toxicological int	formation
11.1. Information on toxicologi	cal 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 LC ₅₀)	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.

Skin sensitisation Skin sensitisation	Not classified. 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 -	reneated 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	
11.2.1. 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).
11.2.2 Other information	None known
Toxicological information on in	gredients.

D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	2,001.0
Species	Rat
ATE oral (mg/kg)	2,001.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	2,001.0
Species	Rabbit
ATE dermal (mg/kg)	2,001.0

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 re	garded as dangerous for the environment.
12.1. Toxicity	
Toxicity Not co	insidered 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 invertebrates	NOEC, 21 days: 1 mg/l, Daphnia magna
12.2. Persistence and degradability	
	urfactant(s) contained in this product complies(comply) with the biodegradability criteria I 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 dat	ta available on bioaccumulation.
Partition coefficient Not ap	pplicable.
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 pr	roduct is water-soluble and may spread in water systems.
Ecological information on ingredients.	
	D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES

-	stant 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 ing	redients.		
	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 ing	redients.		
	D-GLUCOPYRANOSE, OLIGOMERIC, C8-10 GLYCOSIDES		
Other adverse effects None known.			
SECTION 13: Disposal consid	derations		
13.1. Waste treatment metho	ds		
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 infor	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible.		
SECTION 14: Transport infor General	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible.		
<u>.</u>	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods		
General	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods		
General 14.1. UN number	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).		
General <u>14.1. UN number</u> Not applicable.	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).		
General <u>14.1. UN number</u> Not applicable. <u>14.2. UN proper shipping nan</u>	Iocal Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).		
General <u>14.1. UN number</u> Not applicable. <u>14.2. UN proper shipping nan</u> Not applicable.	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). ne (es)		
General <u>14.1. UN number</u> Not applicable. <u>14.2. UN proper shipping nan</u> Not applicable. <u>14.3. Transport hazard class(</u>	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). ne (es)		
General 14.1. UN number Not applicable. 14.2. UN proper shipping nan Not applicable. 14.3. Transport hazard class(No transport warning sign reconstruction 14.4. Packing group	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). ne (es)		
General 14.1. UN number Not applicable. 14.2. UN proper shipping nan Not applicable. 14.3. Transport hazard class(No transport warning sign rec 14.4. Packing group Not applicable.	local Waste Disposal Authority. Normal use solutions are expected to be flushed to sewers. Reuse or recycle products wherever possible. mation The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). ne (es) quired.		

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. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended). 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 used in the safety data sheet	DNEL: Derived No Effect Level. 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

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.