

SAFETY DATA SHEET JANGRO KETTLE & SHOWER DESCALER BB024-50

According to Regulation (EC) No 2020/878, Annex II, as amended

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

1.1. Product identifier

Product name JANGRO KETTLE & SHOWER DESCALER BB024-50

Product number BB024-50

Internal identification 800-298-0001

Container size 500mL

UFI: 460A-X469-2Q73-GNKE

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

Identified uses Descaler.

Uses advised againstNot for direct oral consumption in concentrated form. Use only for intended applications.

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 Skin Corr. 1 - H314 Eye Dam. 1 - H318

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

Precautionary statements P102 Keep out of reach of children.

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P260 Do not breathe vapour/ spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P310 Immediately call a POISON CENTER/ doctor.

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

Contains Citric Acid

Supplementary precautionary

P101 If medical advice is needed, have product container or label at hand.

statements P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P404 Store in a closed container.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Citric Acid 10-30%

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

Classification

Eye Irrit. 2 - H319

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.

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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 Chemical burns must be treated by a physician. Rinse immediately with plenty of water.

Remove contaminated clothing. Continue to rinse for at least 15 minutes and get medical

attention.

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 immediately. 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.

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

GI Tract. A soapy taste may be reported.

Skin contact Corrosive. Burns can occur. Prolonged contact may cause redness, irritation and dry skin.

Eye contact Risk of serious damage to eyes. The product is irritating to eyes and skin. Irritation and

redness, followed by blurred vision. Corneal damage.

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

Notes for the doctor No specific recommendations.

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.

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. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking.

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 (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/kgSediment (Marinewater); 3.46 mg/kg

- Soil; 33.1

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.

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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.

Environmental exposure

controls

Avoid releasing into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Colourless.

Odour Unperfumed.

Odour threshold Not applicable.

pH pH (concentrated solution): 1-2

Melting point Not determined.

Initial boiling point and range No information available.

Flash point This product does not sustain combustion. Not determined.

Evaporation rateNot applicable.Evaporation factorNot applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

Decomposition Temperature

explosive limits

The product is not flammable.

Other flammability

Vapour pressure

Not determined.

Vapour density

Not applicable.

Relative density 1.035-1.045 @ 20°C

Bulk density

Solubility(ies)

Partition coefficient

Auto-ignition temperature

Not applicable.

Soluble in water.

Not determined.

Viscosity Agua ~ 1 mPa s @ 20°C

Not determined.

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Explosive propertiesThere are no chemical groups present in the product that are associated with explosive

properties.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties There are no chemical groups present in the product that are associated with oxidising

properties.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information Not relevant.

Refractive index 8.5-9.5

Volatile organic compound Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Under normal storage conditions this product is stable. Reactions with the following materials

may generate heat: Alkalis. Alkali metals. Mixing with hypochlorite bleach based products will

produce Toxic Chlorine gas.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Reacts with alkalis and generates heat. Reacts with chlorine/hypochlorite, sulphites, nitrites to produce toxic or corrosive gases. 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. Avoid contact with Bleach and Alkaline

materials.

10.5. Incompatible materials

Materials to avoid Do not mix with other household chemical products. Avoid contact with hypochlorite bleach

products.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

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.

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Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin. Irritating to skin.

Serious eye damage/irritation

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

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 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 exposureNot 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 This product has low toxicity.

In high concentrations, vapours may irritate throat and respiratory system and cause

coughing.

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

pain. Nausea, vomiting. Diarrhoea.

Skin contact Causes severe skin burns and eye damage. Prolonged or repeated exposure may cause the

following adverse effects: Irritation. Redness. Dryness and/or cracking. Mild dermatitis,

allergic skin rash.

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

blurred vision. Corneal damage.

11.2 Information on other

hazards

11.2.1. Endocrine disrupting This product is not classified as, nor contains substances classed as having endocrine

properties 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.

Citric Acid

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 5,040.0

mg/kg)

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Species Mouse

ATE oral (mg/kg) 5,040.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,001.0

mg/kg)

Species Rat

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 Not considered toxic to fish. The product may affect the acidity (pH) of water which may have

hazardous effects on aquatic organisms.

Ecological information on ingredients.

Citric Acid

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 48 hours: 440 and 760 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic

invertebrates

EC₅₀, 24 hours: 1535 mg/l, Daphnia magna

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.

Citric Acid

Persistence and degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

Citric Acid

Bioaccumulative potential The product is not bioaccumulating.

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.

Citric Acid

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.

12.6. Endocrine disrupting

properties

properties

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).

Ecological information on ingredients.

Citric Acid

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

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

Citric Acid

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Disposal methodsDispose 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

14.1. UN number

UN No. (ADR/RID) 3265

UN No. (IMDG) 3265

UN No. (ICAO) 3265

UN No. (ADN) 3265

14.2. UN proper shipping name

Proper shipping name

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)

(ADR/RID)

Proper shipping name (IMDG) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)

Proper shipping name (ICAO) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)

Proper shipping name (ADN) CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS CITRIC ACID)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C3

ADR/RID label 8

IMDG class 8

ICAO class/division 8

Transport labels



ADN class

14.4. Packing group

ADR/RID packing group III
IMDG packing group III
ICAO packing group III
ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

8

No.

14.6. Special precautions for user

IMDG Code segregation 1. Acids

group

EmS F-A, S-B

ADR transport category 3

Emergency Action Code 2X

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

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).

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 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).

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)

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 commentsNOTE: Lines within the margin indicate significant changes from the previous revision. Note:

Finished product SDS take their revision history from the parent bulk liquid SDS. The revision

data will show that of the parent liquid. Review with no changes to classification

Revision date 22/01/2024

Revision 4

Supersedes date 01/12/2022

SDS number 21744

Hazard statements in full H314 Causes severe skin burns and eye damage.

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 -----