



SAFETY DATA SHEET

Knaus Multi-Purpose Descaler

1. Identification

Product identifier

Product name Knaus Multi-Purpose Descaler
Product number 01020/01
Container size 300mL

Recommended use of the chemical and restrictions on use

Application Cleaning agent.
Uses advised against Not to be used in any other way than instructed on product packaging.

Details of the supplier of the safety data sheet

Supplier Challs International Ltd
 UK ADDRESS:
 Unit 46 Lady Lane Industrial Estate
 Hadleigh
 Suffolk
 IP7 6BQ
 Contact Number: +44 1473 828700
 Contact Email: sales@challs.com

EU ADDRESS:
 1 Drummartin Road
 Dundrum
 Dublin 14
 D14 C3YO
 Contact Number: +353 12960842
 Contact Email: sales@challs.com

Manufacturer Primo Manufacturing Ltd
 Hadleigh
 Suffolk
 IP7 6BQ
 +44 01473 820999
 sales@primo.mfg.co.uk

Emergency telephone number

National emergency telephone number (01) 809 2166 - Poisons Information Centre of Ireland
 Office Hours: Daily 8am-10pm
 030 - 192 40 - Giftnotruf der Charité Universitätsmedizin Berlin
 13 1126 (24 hours) Australian National Poisons Centre

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

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Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Not Classified

Label elements

Hazard symbols



Signal word Danger

Hazard statements
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.

Precautionary statements
 P261 Avoid breathing vapor/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 If on skin: Wash with plenty of water.
 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.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains Lactic Acid, A mixture of: tetrasodium phosphonoethane-1,2-dicarboxylate and hexasodium phosphonobutane-1,2,3,4-tetracarboxylate

Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

3. Composition/information on ingredients

Mixtures

Lactic Acid	30-60%
CAS number: 79-33-4	
Classification	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
A mixture of: tetrasodium phosphonoethane-1,2-dicarboxylate and hexasodium phosphonobutane-1,2,3,4-tetracarboxylate	<1%
CAS number: 143239-08-1	
Classification	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact	Remove affected person from source of contamination. Take off immediately all contaminated clothing and wash it before reuse. Wash skin thoroughly with soap and water. In the event of any sensitization symptoms developing, ensure further exposure is avoided. Get medical attention immediately.
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
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Indication of immediate medical attention and special treatment needed

Specific treatments	Treat symptomatically.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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Special hazards arising from the substance or mixture

Specific hazards	None known.
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Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8.
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Environmental precautions

Environmental precautions	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. Avoid discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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Methods and material for containment and cleaning up

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Methods for cleaning up Do not touch or walk into spilled material. Stop leak if safe to do so. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. When handling waste, the safety precautions applying to handling of the product should be considered. Containers with collected spillage must be properly labeled with correct contents and hazard symbol. Flush contaminated area with plenty of water. The requirements of the local water authority must be complied with if contaminated water is flushed directly to the sewer. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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.

7. Handling and storage

Precautions for safe handling

Usage precautions Read label before use. Good personal hygiene procedures should be implemented. Handle all packages and containers carefully to minimize spills. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors.

Conditions for safe storage, including any incompatibilities

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

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

8. Exposure controls/Personal protection

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapors.

Eye/face protection Wear eye protection.

Hand protection Wear protective gloves.

Other skin and body protection Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls Keep container tightly sealed when not in use.

9. Physical and chemical properties

Information on basic physical and chemical properties

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Appearance	Clear liquid.
Color	Colorless.
Odor	Acidic.
pH	pH (concentrated solution): 1.5 - 2.5
Relative density	1.10 - 1.12 @ 20°C
Solubility(ies)	Soluble in water.

10. Stability and reactivity

Reactivity	Alkalis. Strong oxidizing agents.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Alkalis. Oxidizing agents. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air.
Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
Materials to avoid	Alkalis. Strong oxidizing agents.
Hazardous decomposition products	None known.

11. Toxicological information

Information on toxicological effects

Inhalation	This product is corrosive. Prolonged inhalation of high concentrations may damage respiratory system.
Ingestion	This product is corrosive. May cause chemical burns in mouth, esophagus and stomach.
Skin Contact	This product is corrosive. May cause serious chemical burns to the skin.
Eye contact	This product is strongly corrosive to the eyes. May cause serious eye damage.

12. Ecological information

Ecotoxicity	The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.
Toxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
<u>Persistence and degradability</u>	
Biodegradation	Expected to be readily biodegradable.
<u>Bioaccumulative potential</u>	
Bio-Accumulative Potential	The product does not contain any substances expected to be bioaccumulating.
<u>Mobility in soil</u>	
Mobility	The product is soluble in water.
<u>Other adverse effects</u>	

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Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Do not puncture or incinerate, even when empty. Waste should be treated as controlled waste.

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

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable.

UN proper shipping name

Proper shipping name (International) Not applicable.

Transport hazard class(es)

Transport Labels (International) No transport warning sign required.

Packing group

Packing group (International) Not applicable.

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).
Dangerous Substances and Explosive Atmospheres Regulations 2002.
EH40/2005 Workplace exposure limits.
Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Guidance Workplace Exposure Limits EH40.

16. Other information

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Revision date	2/5/2021
Revision	3.0
Supersedes date	9/7/2016
SDS No.	4678
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.