



## SAFETY DATA SHEET

### Knaus Multi-Purpose Descaler

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

##### 1.1. Product identifier

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

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

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

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** Challs International Ltd.  
 Unit 46  
 Lady Lane Industrial Estate  
 Hadleigh  
 Suffolk  
 IP7 6BQ  
 +44 01473 828700  
 +44 01473 828701  
 sales@challs.com

**Manufacturer** Primo Manufacturing Ltd  
 Unit 46  
 Lady Lane Industrial Estate  
 Hadleigh  
 Suffolk  
 IP7 6BQ  
 +44 01473 828700  
 +44 01473 828701  
 sales@primo.mfg.co.uk

##### 1.4. Emergency telephone number

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

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

**Classification (67/548/EEC or 1999/45/EC)** Xi; R36/38

##### 2.2. Label elements

## Knaus Multi-Purpose Descaler

### Pictogram



<b>Signal word</b>	Danger
<b>Hazard statements</b>	H315 Causes skin irritation. H318 Causes serious eye damage. EUH208 Contains A mixture of: tetrasodium phosphonoethane-1,2-dicarboxylate and hexasodium phosphonobutane-1,2,3,4-tetracarboxylate. May produce an allergic reaction.
<b>Precautionary statements</b>	P103 Read label before use. P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand. P264 Wash contaminated skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	Lactic Acid
<b>Detergent labelling</b>	< 5% polycarboxylates
<b>Supplementary precautionary statements</b>	P302+P352 IF ON SKIN: Wash with plenty of water. P362+P364 Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Lactic Acid</b>	<b>30-60%</b>
CAS number: 79-33-4	EC number: 201-196-2
	REACH registration number: 01-2119474164-39-XXXX
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
<b>A mixture of: tetrasodium phosphonoethane-1,2-dicarboxylate and hexasodium phosphonobutane-1,2,3,4-tetracarboxylate</b>	
<b>&lt;1%</b>	
CAS number: 143239-08-1	EC number: 410-800-5
<b>Classification</b>	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove affected person from source of contamination. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Skin contact</b>	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. Get medical attention immediately.
<b>Eye contact</b>	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.

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

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

<b>Specific treatments</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
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#### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	When handled correctly, undamaged units represent no danger.
<b>Hazardous combustion products</b>	None known.

#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	For personal protection, see Section 8.
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#### 6.2. Environmental precautions

<b>Environmental precautions</b>	Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.
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#### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	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. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Flush contaminated area with plenty of water.
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#### 6.4. Reference to other sections

<b>Reference to other sections</b>	For waste disposal, see Section 13.
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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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**Usage precautions** Avoid inhalation of vapours and spray/mists. Use only outdoors or in a well-ventilated area. Handle all packages and containers carefully to minimise spills. Avoid contact with skin, eyes and clothing.

### 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.

**Storage class** Corrosive storage.

### 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

### 8.2. Exposure controls

#### Protective equipment



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

**Eye/face protection** Wear eye protection.

**Hand protection** It is recommended that chemical-resistant, impervious gloves are worn. Butyl rubber.

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

**Hygiene measures** Wash at the end of each work shift and before eating, smoking and using the toilet. 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.

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

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Appearance** Clear liquid.

**Colour** Colourless.

**Odour** Acidic.

**pH** pH (concentrated solution): <2

**Relative density** 1.112 @ 20°C

**Solubility(ies)** Soluble in water.

### 9.2. Other information

**Other information** None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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**Reactivity** Reacts with: Alkalis.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Reacts with: Alkalis. Oxidising agents. In contact with some metals can generate hydrogen gas, which can form explosive mixtures with air. Other metals or alloys.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Alkalis. Oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Hydrogen chloride (HCl).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Inhalation** Harmful by inhalation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

**Ingestion** Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

**Skin contact** May cause serious chemical burns to the skin.

**Eye contact** Causes burns. May cause serious eye damage.

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 20.5 mg/l, Algae

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.45 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.73 mg/l,

### 12.2. Persistence and degradability

**Persistence and degradability** The product is expected to be biodegradable.

**Biodegradation** Expected to be readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

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**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. 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.

## 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

**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).

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### EU legislation

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

Commission Regulation (EU) No 453/2010 of 20 May 2010.

Dangerous Preparations Directive 1999/45/EC.

Dangerous Substances Directive 67/548/EEC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

### Guidance

Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Revision date** 13/02/2018

**Revision** 3

**Supersedes date** 07/09/2016

**SDS number** 5079

**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.  
 EUH208 Contains A mixture of: tetrasodium phosphonoethane-1,2-dicarboxylate and hexasodium phosphonobutane-1,2,3,4-tetracarboxylate. May produce an allergic reaction.