



Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II (453/2010) - Europe

Magic Kettle Descaler

Issue 2T
Revision 15 May 2015

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

1.1 Product Identifier

Product Name Magic Kettle Descaler

Product Codes 1103

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

Identified Uses of the substance/mixture Descaling Agent (Manual application, Spray/Rinse, Cleaning-in-Place)
Professional Use.

Uses advised against Uses other than those identified are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Distributor	RP Adam Ltd	Tel.	+44 (0) 1750 21586
	Arpal Works	Fax.	+44 (0)1750 21506
	Riverside Road	email	Salesinfo@rpadam.co.uk
	Selkirk, TD7 5DU		
	UK		

1.4 Emergency Telephone Number

National Advisory Body/Poison Centre

Tel. National Poison Information Service 0870 243 2241 (UK Only)
(0870 600 6266 Medical Professionals Only – UK Only)

Manufacturer/ Distributor/ Importer

Telephone number: + 44 (0)1750 21586

2 Hazards Identification

2.1 Classification of Substance or mixture

Product Definition Mixture

Classification according to Directive 1999/45/EC [DPD]

Classification	Xi	Irritant
Human Health Hazards	R36/38	Irritating to eyes and skin

Classification according to Regulation (EC) No. 1272/2008

Physical Hazards	No Significant Hazard
Human Health Hazards	Eye Irrit 2 – H319
Environmental Hazards	No Significant Hazard

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2.2 Label Elements

Label Elements (In Accordance With Directive 1999/45/EC [DPD])

Hazard Symbol(s)



Indication of danger

Irritant

Risk Phrases

R36/38 Irritating to eyes and skin

Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

Label Elements (In Accordance With (EC) No. 1272/2008)

Pictogram(s)



Signal Word

Warning

Hazard Statements

H319 Causes serious eye irritation

Precautionary statements

Prevention

P280 Wear protective gloves/eye protection.

Response

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 attention.

2.3 Other hazards

Other hazards which do not result in classification

Not applicable

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3 Composition/Information on Ingredients

3.2 Mixtures

Product/Ingredient Name	Identifiers Reach No/CAS/EC No	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Citric Acid	01-2119457026-42/ 77-92-9/ 201-069-1	5-15	Xi; R36	Eye Irrit. 2 (H319)	1
Benzotriazole	Not Available/ 94-14-7/ 202-394-1	0.1-1	Xn; 20/22 Xi; R36 52/53	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	1
2-Propyn-1-ol, compd. with methyloxirane	Not Available/ 38172-91-7/ Not Available	0.1-1	Xn; R22 Xi; R41	Acute Tox 4 (oral) (H302) Eye Dam/Irrit 1 (H318)	1
Phosphoric Acid	01-2119485924-24/ 7664-38-2/ 231-633-2	5-15	C; R34	Skin Corr. 1B (H314) Met. Corr. 1 (H290)	1, 2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

- Type
- 1 Substance classified with a health or environmental hazard
 - 2 Substance with a workplace exposure limit
 - 3 Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 - 4 Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

4 First aid measures

4.1 Description of first aid measures

Eye Contact	Rinse immediately with copious amounts of water for at least 10 minutes, holding the eyelids open. If irritation occurs obtain medical advice.
Inhalation	Remove from source of exposure. Seek medical advice if symptoms persist. Exposure by inhalation is unlikely in normal use.
Skin Contact	Flush contaminated area with running water for 10 minutes, remove any contaminated clothing and launder before re-use. If irritation persists or there is any sign of skin damage seek medical advice.
Ingestion	If conscious, remove product from mouth, give casualty a small quantity of water or milk to drink and seek medical advice. Do not induce vomiting
Protection of First Aider	Wear PPE if appropriate (Refer to section 8.2)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Irritations are the most likely symptoms when there is exposure to skin and eyes. Not considered to cause sensitization. Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

Treat according to symptoms (decontamination, vital functions). Toxicological information on components, where available, is given in section 11.

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5 Fire fighting measures

5.1 Extinguishing media

Extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog
Unsuitable extinguishing media	None known

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	During fire toxic gases, CO and CO ₂ are formed

5.3 Advice for fire-fighters

Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear self-contained breathing apparatus and suitable personal protective equipment as appropriate to the surrounding fire.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray/mist. Avoid contact with the skin, eyes and clothing. Use personal protective clothing. Information regarding personal protective measures see, section 8.

6.2 Environmental precautions

Do not discharge into drains/surface waters/groundwater. Contain contaminated water/fire fighting water.

6.3 Methods and material for containment and cleaning up

Small spill:	Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill	Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. dry sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7 Handling and storage

7.1 Precautions for safe handling

Keep container tightly closed. Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with the skin, eyes and clothing. Contaminated surfaces may be extremely slippery. Clean up spillages. Do not allow to dry. Do not eat, drink or smoke in area where material is used or stored.

7.2 Conditions for safe storage, including any incompatibilities

Protect against heat. Store in original labelled containers. Keep container tightly closed, upright and in a cool place. Keep away from alkalis and bleach. Protect from freezing.

7.3 Specific end use(s)

Recommendations	Not specific advice available.
Industrial sector specific solutions	Not applicable.

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8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name

Phosphoric Acid

Exposure limit values

EH40 (United Kingdom): LTEL: 1 mg/ m³ STEL: 2mg/m³ (15 minutes)

Derived effect levels

No DNELs available for the mixture.

Predicted effect concentrations

No PNECs available for the mixture.

8.2 Exposure controls

Process conditions

No Information Available

Engineering Measures

Wear appropriate PPE if contact is possible. If airborne vapours or mists are generated provide adequate general and local exhaust ventilation to keep exposure below any statutory limits.

Personal Protective Equipment

Respiratory protection:

Not needed in normal use. If vapour/aerosol is created use particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 14387)

Hand protection

Wear chemical resistant protective gloves (EN 374)

Review condition of gloves when in use, especially for wear, cuts and breakthrough after prolonged contact.

Eye protection

Consult with a supplier of protective gloves for further information or for other tasks.

Not needed in normal use. Wear tightly fitting safety goggles (splash goggles) (e.g. EN 166) if splashing may occur

Body protection:

Wear chemical resistant clothing and boots if exposure/splashing may occur. Other body protection may be suitable depending on activity and possible exposure, e.g. apron, chemical-protection suit (meeting EN 14605).

General safety and hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

9 Physical & chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Clear, Yellow.
Odour	Product specific.
Odour threshold	Not determined for the mixture.
pH value 20 Deg C	<2 (at 100%)
Melting point/Freezing point	Not determined for the mixture.
Initial boiling point and boiling range	Not determined for the mixture.
Flash point	>100 deg C
Evaporation rate	Not determined for the mixture.
Flammability (solid, gas)	Not flammable.
Burning time	Not determined for the mixture.
Burning rate	Not determined for the mixture.
Upper/lower flammability or explosive limits	Not determined for the mixture.
Vapour pressure	Not determined for the mixture.
Relative density	1.10 – 1.11
Solubility(ies)	Readily soluble in cold and hot water
Partition coefficient: n-octanol/water	Not determined for the mixture.
Auto ignition temperature	Not determined for the mixture.
Decomposition temperature	Not determined for the mixture.
Viscosity	Not determined for the mixture.
Explosive properties	Not explosive
Oxidising properties	None

9.2 Other Information

No further relevant information available

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10 Stability and Reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical Stability	Stable mixture under normal conditions or storage and use.
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur in normal storage conditions.
10.4 Conditions to avoid	None known in normal storage conditions.
10.5 Incompatible materials	Will react with alkalis and metals. Do not allow to come into contact with bleach or chlorine products.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 Toxicology

11.1 Information on toxicological effects

Toxicological data for this mixture is not available as animal toxicity studies have not been carried out. Toxicological data for the raw materials is, where provided by the manufacturer, available on request.

12 Ecological information

12.1 Toxicity

Ecological Toxicity data for this mixture is not available as ecological toxicity studies have not been carried out. Ecological Toxicity data for the raw materials is, where provided by the manufacturer, available on request.

12.2 Persistence and degradability

Conclusion/Summary Any surfactants contained in the product are biodegradable according to the requirements of the detergent regulation 648/2004/EC

12.3 Bioaccumulative potential

Conclusion/Summary Not determined for the mixture.

12.4 Mobility in soil

Soil/water partition coefficient (KOC) Not determined for the mixture.

Mobility Not determined for the mixture.

12.5 Results of PBT and vPvB assessment

PBT Not applicable.

vPvB Not applicable.

12.6 Other adverse effects No known significant effects or critical hazards.

13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products Dispose of in compliance with all Federal, state, provincial, and local laws and regulations.
EWC Code 20 01 29* - detergents containing dangerous substances

Empty packaging recommendation: Dispose of observing national or local regulations. (Can be cleaned with water)
EWC Code 20 01 39

14: Transport information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	None	None	None	None
14.2 UN proper shipping name	Not Required	Not Required	Not Required	Not Required
14.3 Transport hazard class(es):	Not considered to be hazardous for transport			
14.4 Packing group	Not Required	Not Required	Not Required	Not Required
14.5 Environmental hazards	None	None	None	None
14.6 Special precautions for user	None known	None known	None known	None known
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode	Product not transported bulk tanker			
Other relevant information (ADR)	Not required			

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15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Ingredients according to EC Detergents Regulation 648/2004

<5% Nonionic surfactants

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

Reason for revision: Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

Full text of the R, H and EUH phrases mentioned in section 3

R36	Irritating to eyes
R20/22	Harmful by inhalation and if swallowed
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R22	Harmful if swallowed
R41	Risk of serious damage to eyes
R34	Causes burns
H319	Causes serious eye irritation
H302	Harmful if swallowed
H332	Harmful if inhaled
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects
H318	Causes serious eye damage
H314	Causes severe skin burns and eye damage
H290	May be corrosive to metals

Abbreviations and acronyms

ATE	Acute Toxicity Estimate
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]
DNEL	Derived No Effect Level
EUH statement	CLP-specific Hazard statement
PNEC	Predicted No Effect Concentration
REACH No	REACH registration number, without supplier specific part