

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

Issue 2T Revision 14 May 2015

Descaler

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

1.1 Product Identifier Product Name Descaler

Product Codes 1293

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 (Arpal Group) Tel. +44 (0) 1750 23780

North Riverside Business Park, Fax. +44 (0) 1750 21506

Riverside Road, Fax. +44 (U) 1750 21506 email salesinfo@rpadam.co.uk

Selkirk, TD7 5DU United Kingdom

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 C Corrosive
Human Health Hazards R34 Causes burns

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

Physical Hazards Met Corr 1 – H290
Human Health Hazards Skin Corr 1 – H314
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 CORROSIVE

Risk Phrases R34 Causes burns

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

Pictogram(s)



Signal Word Danger

Contains phosphoric acid

Hazard Statements H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage.

Precautionary statements Prevention P280 Wear protective gloves, protective clothing, eye protection and face

protection

Response P303 + P361 + IF ON SKIN (or hair): Remove immediately all contaminated

P353 clothing. Rinse skin with water.

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

P338 contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor P390 Absorb spillage to avoid material damage

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	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Phosphoric Acid	01-2119485924-24/ 7664-38-2/ 231-633-2	15-30	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 Get medical attention immediately. Rinse opened eye for at least 15 minutes with plenty

of water. Check for and remove contact lenses. Any chemical burns must be treated

promptly by a doctor

Inhalation Remove from source of exposure. Supply fresh air. Get medical attention immediately Skin Contact Immediately wash thoroughly with plenty of water. Remove all contaminated clothing.

Continue to rinse for 15 minutes. Apply sterile dressings if required. Consult a skin

specialist in the event of irritation or burns.

Ingestion Immediately rinse mouth and ask person to slowly sip 200-300 ml of water or milk. Stop if

person shows signs of vomiting. Seek medical attention immediately. 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. Severe burns and irritation are most likely symptoms when there is exposure to skin, eyes and respiratory system. 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, in 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 CO₂ 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. 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 Exposure limit values

Phosphoric Acid 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 Provide eye-wash stations

Engineering Measures The concentrated product is intended to be used via a dispenser to avoid splashes and

contact with the skin. Wear appropriate PPE if contact is possible when changing flasks. 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.

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

Eye protection Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

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, pale straw.
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.

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 Not determined for the mixture.

limits

Vapour pressure Not determined for the mixture.

Relative density 1.2

Solubility(ies)

Partition coefficient: n-octanol/water

Auto ignition temperature

Decomposition temperature

Viscocity

Neadily soluble in cold and hot water

Not determined for the mixture.

Not determined for the mixture.

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 ReactivityNo 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 Hazardous reactions will not occur in normal storage conditions.

reactions

10.4 Conditions to avoidNone 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 Under normal conditions of storage and use, hazardous decomposition products should

products 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/SummaryAny 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 effectsNo 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

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14: Transport information

ADR/RID ADN/ADNR IMDG IATA

14.1 UN number UN 1805

14.2 UN proper shipping name PHOSPHORIC ACID SOLUTION

14.3 Transport hazard class(es): 8

CORROSIVE

14.4 Packing group

14.5 Environmental hazardsNone14.6 Special precautions for userNone known

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the

Not Applicable – Not shipped in bulk containers

IBCCode

Other relevant information (ADR) Classification code: C1 Tunnel restriction code: E Hazard Identification No: 80

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

Nonionic surfactants 1-5%

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

R34 Causes burns

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

N/A Not Applicable

PNEC Predicted No Effect Concentration

REACH No REACH registration number, without supplier specific part