

# Safety Data Sheet

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

Printing Date 04 February 2016

## Adamatic Universal

Issue 3T  
Revision 13 April 2015

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

#### 1.1 Product Identifier

Product Name Adamatic Universal

Product Codes 1512, 1565

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

Identified Uses of the substance/mixture Dishwash product. Automatic process. 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)<br>North Riverside Business Park,<br>Riverside Road,<br>Selkirk, TD7 5DU<br>United Kingdom | Tel.  | +44 (0) 1750 23780     |
|                          |  | Fax.  | +44 (0) 1750 21506     |
|                          |  | email | salesinfo@rpadam.co.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       | C   | Corrosive           |
| Human Health Hazards | R35 | Causes severe burns |

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

|                       |                    |
|-----------------------|--------------------|
| Physical Hazards      | Met Corr 1 – H290  |
| Human Health Hazards  | Skin Corr 1 – H314 |
| Environmental Hazards | None               |

See Section 11 for more detailed information on health effects and symptoms.

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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

R35 Causes severe burns

Safety Phrases

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

S28a After contact with skin, wash immediately with plenty of water.

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

**Danger**

Contains Sodium Hydroxide

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 + P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with 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 CENTRE 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<br>Reach No/CAS/EC No            | %    | Classification       |   | Type |
|-----------------------------|--|------|----------------------|---|------|
|                             |  |      | 67/548/EEC           | Regulation (EC) No.<br>1272/2008 [CLP]                      |      |
| Sodium Hydroxide            | 01-2119457892-27/<br>1310-73-2/<br>215-185-5 | 5-15 | C; R35               | Skin Corr 1A (H314)   | 1, 2 |
| Trisodium nitrilotriacetate | 01-2119519239-36/<br>5064-31-3/<br>225-768-6 | 1-5% | Xn; R22,<br>R36, R40 | Carc 2 (H351)<br>Acute Tox. 4 (H302)<br>Eye Irrit. 2 (H319) | 1    |

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, 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 <sub>2</sub> 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 acids. 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

Sodium hydroxide

##### Exposure limit values

EH40 (United Kingdom): STEL: 2mg/m<sup>3</sup> (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 dosing system to avoid splashes and contact with the skin. Wear appropriate PPE if contact is possible when connecting to dosing system. 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.

Butyl rubber gloves are recommended for prolonged contact (Breakthrough: 4-6hrs)

Nitrile rubber suggested for short contact or splash protection (Breakthrough: 30-60 min)

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.

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## 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                            | 13 - 14 (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                             | 1.22 – 1.25                           |
| 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

## 10 Stability and Reactivity

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.           |
| <b>10.2 Chemical Stability</b>                 | Stable mixture under normal conditions or storage and use.   |
| <b>10.3 Possibility of hazardous reactions</b> | Hazardous reactions will not occur in normal storage conditions.                                     |
| <b>10.4 Conditions to avoid</b>                | None known in normal storage conditions.   |
| <b>10.5 Incompatible materials</b>             | Will react with acids.   |
| <b>10.6 Hazardous decomposition products</b>   | 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.

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## 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  |
|---|---|---|---|---|
| <b>14.1 UN number</b>   | UN 1824   | UN 1824   | UN 1824   | UN 1824   |
| <b>14.2 UN proper shipping name</b>   | SODIUM HYDROXIDE SOLUTION   | SODIUM HYDROXIDE SOLUTION   | SODIUM HYDROXIDE SOLUTION   | SODIUM HYDROXIDE SOLUTION   |
| <b>14.3 Transport hazard class(es): 8</b>   |  |  |  |  |
| <b>14.4 Packing group</b>   | II  | II  | II  | II  |
| <b>14.5 Environmental hazards</b>   | None  | None  | None  | None  |
| <b>14.6 Special precautions for user</b>  | None known  | None known  | None known  | None known  |
| <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBCCode</b> | Not Applicable  |   |   |   |
| <b>Other relevant information (ADR)</b>   | Classification code: C5 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

<5% NTA (nitriloacetic acid) and salts  
Phosphonates

### 15.2 Chemical safety assessment

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

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## 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

|      |   |
|------|---|
| R35  | Causes severe burns                       |
| R22  | Harmful if swallowed                      |
| R36  | Irritating to eyes                        |
| R40  | Limited evidence of a carcinogenic effect |
| H314 | Causes severe skin burns and eye damage   |
| H302 | Harmful if swallowed                      |
| H351 | Suspected of causing cancer               |
| H319 | Causes serious eye irritation             |

### 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                         |