



Printing Date 22 November
2013

Safety Data Sheet

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

Adamatic Dishwash Powder

Issue 1T
Revision 24 April 2013

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

| | | | |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| 1.1 Product Identifier | Product Name | Adamatic Dishwash Powder | |
| | Product Codes | 3020 | |
| 1.2 Relevant identified uses of the substance or mixture and uses advised against | Identified Uses of the substance/mixture Auto Dishwash Powder. Professional Use. | | |
| | Uses advised against None Identified | | |
| 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 |
| Environmental Hazards | R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment |

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

2.2 Label Elements

Hazard Symbol(s)



Indication of danger

Irritant

Risk Phrases

R36/38 Irritating to eyes and skin
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases

S24/25 Avoid any inhalation, contact with skin and eyes. Wear suitable protective clothing and gloves
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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] | |
| Sodium Carbonate | 01-2119485498-19/ 497-19-8/ 207-838-8 | 30-60 | Xi; R36 | Eye Irrit. 2 (H319) | 1 |
| Disodium Metasilicate | 01-2119449811-37/ 6834-92-0/ 229-912-9 | 5-15 | C; R34 Xi; R37 | Met. Corr. 1 (H290) Skin Corr. 1B (H314) Eye Damage 1 (H318) | 1 |
| Sodium Dichloroisocyanurate, Dihydrate | Not Available/ 51580-86-0/ 220-767-7 | 1-5 | Xn; R22 Xi; R36/37 N. R50/53 R31 | Aquatic Chronic 1 (H410) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT SE 3 (H335) | 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 laundry 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. 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 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 dust. 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: | Sweep up material and place in an appropriate waste disposal container for disposal according to local regulations (see section 13).. Wash affected area with water. |
| Large spill | Prevent entry into sewers, water courses, basements or confined areas. Sweep up material and place in an appropriate waste disposal container. Wash affected area with water 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 Dichloroisocyanurate, Dihydrate

Exposure limit values

MEL Short Term 0.07 mgm⁻³ Short Term 0.02 mgm⁻³

Contains no ingredients with set exposure limits

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

Wear appropriate PPE if contact is possible when opening tubs and dispensing powder. If airborne dusts 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 dust 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

Not needed in normal use. Wear tightly fitting safety goggles (splash goggles) (e.g. EN 166) if dust is likely to be produced.

Body protection:

Wear chemical resistant clothing and boots if exposure 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 | Free flowing powder |
| Colour | White. |
| Odour | Slight chlorine |
| Odour threshold | Not determined for the mixture. |
| pH value 20 Deg C | 11.0-12.5 @ 2% |
| Melting point/Freezing point | Not determined for the mixture. |
| Initial boiling point and boiling range | Not determined for the mixture. |
| Flash point | Not determined for the mixture. |
| 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 | 0.850-1.150 |
| 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

| | |
|------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 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 acids. |
| 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.

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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 |
|-------------------------------------------------------------------------------------|----------------|----------------------------------------------|----------------|--------------|
| 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 | | | Not Applicable | |
| Other relevant information (ADR) | Not Applicable | | | |

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

15-30% Phosphates

5-15% Chlorine based bleaching agents

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

| | |
|--------|-------------------------------------------------------------------------------------------------|
| R36 | Irritating to eyes |
| R34 | Causes burns |
| R37 | Irritating to respiratory system |
| R22 | Harmful if swallowed |
| R36/37 | Irritating to eyes and respiratory system |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R31 | Contact with acids liberates toxic gas |
| | |
| H319 | Causes serious eye irritation |
| H290 | May be corrosive to metals |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H410 | Very toxic to aquatic life with long lasting effects |
| H302 | Harmful if swallowed |
| H335 | May cause respiratory 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 |