

SAFETY DATA SHEET

GRANULAR DISHWASHER SALT

According to Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

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

1.1. Product identifier

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|--------------|--------------------------|
| Product name | GRANULAR DISHWASHER SALT |
| CAS number | 7647-14-5 |
| EC number | 231-598-3 |

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

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|----------------------|---------------------------|
| Identified uses | Water treatment. |
| Uses advised against | Not for oral consumption. |

1.3. Details of the supplier of the safety data sheet

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| Supplier | MERLIN CHEMICALS Unit 5, Passfield Mill Business Park, Liphook, Hants, GU30 7RR +44 (0) 1428 751122 +44 (0) 1428 751133 technical@merlinchemicals.co.uk |
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1.4. Emergency telephone number

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| Emergency telephone | Out of Office Hours Emergency Information:- For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 7050 265597. Note:- This number will not accept order queries or calls dealing with equipment breakdowns. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599. |
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

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|-----------------------|----------------|
| Physical hazards | Not Classified |
| Health hazards | Not Classified |
| Environmental hazards | Not Classified |

2.2. Label elements

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| EC number | 231-598-3 |
| Hazard statements | NC Not Classified |
| Supplemental label information | EUH210 Safety data sheet available on request. |

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|--------------|--------------------------|
| Product name | GRANULAR DISHWASHER SALT |
|--------------|--------------------------|

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| | |
|-----------------------------|---|
| CAS number | 7647-14-5 |
| EC number | 231-598-3 |
| Composition comments | To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH. |

SECTION 4: First aid measures

4.1. Description of first aid measures

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| General information | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| Inhalation | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. |
| Ingestion | Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. |
| Skin contact | Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. |

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

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| Inhalation | Dust in high concentrations may irritate the respiratory system. |
| Ingestion | Unlikely route of exposure without deliberate abuse. Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. |
| Skin contact | Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Use solutions may cause mild irritation, especially to open cuts and abrasions. |
| Eye contact | May cause redness and irritation (stinging sensation) to eyes. |

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

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| Notes for the doctor | Check for abrasion to the surface of eyes. |
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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| Suitable extinguishing media | The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire. |
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5.2. Special hazards arising from the substance or mixture

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| Specific hazards | The product is non-combustible. If heated, irritating vapours may be formed. |
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5.3. Advice for firefighters

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| Protective actions during firefighting | Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| Personal precautions | Avoid contact with eyes and prolonged skin contact. Avoid inhalation of dust. Follow precautions for safe handling described in this safety data sheet. |
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6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with national regulations. Flush contaminated area with plenty of water. Discharge of small quantities to the sewer with plenty of water may be permitted.

6.4. Reference to other sections

Reference to other sections See sections 8, 12 & 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes and prolonged skin contact. Avoid generation and spreading of dust.

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. Store below 40°C.

7.3. Specific end use(s)

Specific end use(s) Refer to Product Information Sheet.

Usage description Refer to use instructions.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): 10 mg/m³ dust

Long-term exposure limit (8-hour TWA): 5 mg/m³ respirable dust

Ingredient comments

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period.

The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period.

If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL.

The WEL limits are laid down in the EH40 list as supplied by the HSE. This is taken from the Chemical Agents Directive (98/24/EC). Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

8.2. Exposure controls

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Protective equipment



Appropriate engineering controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection

The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC). Refer to Standard EN 374.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

Hygiene measures

Provide eyewash station and safety shower. Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin.

Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit.

Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13.

General Health and Safety Measures.

A full Risk Assessment should be carried out before handling any chemical(s). Risk Assessments should refer to COSHH, and any other relevant legislation or industry specific guidelines governing the use of chemicals.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

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| Appearance | Granules. |
| Colour | White. |
| Odour | Odourless. |
| Odour threshold | Not applicable. |
| pH | Not applicable. |
| Melting point | 802°C |
| Initial boiling point and range | 1413°C @ atmospheric pressure |
| Flash point | Not applicable. |
| Evaporation rate | Not applicable. |
| Evaporation factor | Not applicable. |
| Flammability (solid, gas) | Not applicable. |

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| Upper/lower flammability or explosive limits | Not applicable. |
| Vapour pressure | 2.44 mm Hg @ 747°C |
| Vapour density | Not applicable. |
| Relative density | 2.165 @ 20°C |
| Bulk density | Not applicable. |
| Solubility(ies) | Soluble in water. |
| Partition coefficient | Pow: -3.0 |
| Auto-ignition temperature | Not applicable. |
| Decomposition Temperature | Not applicable. |
| Viscosity | Not determined. |
| Explosive properties | Not applicable. |
| Explosive under the influence of a flame | Not considered to be explosive. |
| Oxidising properties | Does not meet the criteria for classification as oxidising. |

9.2. Other information

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| Refractive index | Not applicable. |
| Particle size | Not applicable. |
| Molecular weight | Not applicable. |
| Volatility | Not applicable. |
| Saturation concentration | Not applicable. |
| Critical temperature | Not applicable. |
| Volatile organic compound | Not applicable. |
| Explosive Properties | Not Classified as Explosive |
| Storage Temperature Range | 0 - 40°C |

SECTION 10: Stability and reactivity

10.1. Reactivity

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| Reactivity | There are no known reactivity hazards associated with this product. |
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10.2. Chemical stability

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| Stability | Stable at normal ambient temperatures and when used as recommended. - See note 10.6. |
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10.3. Possibility of hazardous reactions

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| Possibility of hazardous reactions | None known. |
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10.4. Conditions to avoid

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| Conditions to avoid | The substance is hygroscopic and will absorb water by contact with the moisture in the air. |
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10.5. Incompatible materials

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Materials to avoid Strong acids. Under wet conditions can corrode many common metals, particularly iron, aluminium and zinc.

10.6. Hazardous decomposition products

Hazardous decomposition products Trace amount of hydrogen chloride gas may be evolved at temperatures in excess of 800°C.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information See section 4.2.

Inhalation Dust in high concentrations may irritate the respiratory system. - See section 4.2.

Ingestion No harmful effects expected from quantities likely to be ingested by accident. May cause discomfort if swallowed.

Skin contact Under normal conditions of use exposure time will be short and the likelihood of causing skin irritation will be very low. Prolonged skin contact may cause temporary irritation.

Eye contact Particles in the eyes may cause irritation and smarting.

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

Acute toxicity - fish Normal use of diluted product is unlikely to pose a risk.
See note 12.0.

12.2. Persistence and degradability

Persistence and degradability This product consists solely of inorganic materials for which biodegradation assessment is not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient Pow: -3.0

12.4. Mobility in soil

Mobility The product contains substances which are water soluble and may spread in water systems.

12.5. Results of PBT and vPvB assessment

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 When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals.

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Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Small volumes of use solution can be disposed of to sewers.

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 MARPOL73/78 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

EU legislation

European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC) No.1907/2006.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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| Abbreviations and acronyms used in the safety data sheet | <p>(EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.</p> <p>NPIS - National Poisons Information Service.</p> <p>vPvB - Very Persistent, Very bioaccumulative.</p> <p>PBT - Persistent, Bioaccumulative & Toxic.</p> <p>REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).</p> <p>DNEL - Derived No Effect Limit.</p> <p>PNEC - Predicted No Effect Concentration.</p> <p>COSHH - Control of Substances Hazardous to Health.</p> <p>Industry - Refers in section 8 to application of the substance in an industrial process.</p> <p>Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.</p> |
| General information | <p>This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.</p> |
| Revision comments | <p>Review in line with CLP Regulation.</p> |
| Revision date | <p>01/05/2015</p> |
| SDS number | <p>23162</p> |
| REACH extended MSDS comments | <p>REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios.</p> <p>Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.</p> |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.