

SUPER GEM

1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND OF THE COMPANY /UNDERTAKING

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| Product Name: SUPER GEM | Supplier: Gems Hygiene Supplies The Business Centre 79 Leigh Street Sheffield S9 2PR | Tel: 0114 261 8187 Fax: 0114 261 1489 E: info@ghdirect.co.uk |
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2. HAZARDS IDENTIFICATION

MAIN HAZARDS: Irritating to eyes and skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EINICS No. | CAS No. | Content | Classification |
|---|------------|-------------------------|-----------------|------------------------------|
| ORTHOPHOSPHORIC ACID 10-30% (C11- C14) PARETH (5-11) | 231-633-2 | 7664-38-2 24938-91-8 | 10-30% 1-10% | (C) R34 (Xn) R22 (Xi) R41 |

The Full text for all R-Phrases are displayed in Section 16

4. FIRST AID MEASURES

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| INHALATION | There may be irritation of the throat with a feeling of tightness in the chest. Remove casualty from exposure ensuring one's own safety whilst doing so. |
| INGESTION | There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor. |
| SKIN CONTACT | There may be irritation and redness at the site of Contact. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. |
| EYE CONTACT | There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage. Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. |

5. FIRE-FIGHTING MEASURES

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| EXTINGUISHING MEDIA | Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. |
| EXPOSURE HAZARDS | In combustion emits toxic fumes. |
| PROTECTION OF FIRE-FIGHTERS | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. |

6. ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing- see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. |
| ENVIRONMENTAL PRECAUTIONS | Do not discharge into drains and rivers. Contain the spillage using bunding. |
| CLEAN-UP PROCEDURES | Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. |

7. HANDLING AND STORAGE

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| HANDLING REQUIREMENTS | Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. |
| STORAGE CONDITIONS | Store in cool, well ventilated area. Keep container tightly closed. |
| SUITABLE PACKAGING | Stainless steel. Teflon. Glass. Polyethylene. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| NAME | STD | TWA-8HRS | STEL- 15MIN | NOTES |
|-----------------------------|--|------------------------|------------------------|-------|
| ORTHOPHOSPHORIC ACID...100% | | WEL 1mg/m ³ | WEL 2mg/m ³ | |
| ENGINEERING MEASURES | Ensure there is sufficient ventilation of the area. | | | |
| RESPIRATORY PROTECTION | Self contained breathing apparatus must be available in case of emergency. | | | |
| HAND PROTECTION | Protective gloves | | | |
| EYE PROTECTION | Tightly fitting safety goggles. Ensure eye bath is to hand. | | | |
| SKIN PROTECTION | Protection clothing | | | |

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------|--------------------------|
| APPEARANCE | Liquid |
| COLOUR | colourless |
| ODOUR | Barely perceptible odour |
| EVAPOURATION RATE | Moderate |
| RELATIVE DENSITY | 1.15 – 1.25 @ 20°C |
| pH- VALUE, CONC. SOLUTION | 1% = 2-2.5 |
| VOC g/l: | 0 |
| SOLUBILITY IN WATER | Soluble |
| BOILING POINT | >100 |
| MELTING POINT | <0 |

10. STABILITY AND REACTIVITY

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|----------------------------------|----------------------------------|
| STABILITY | Stable under normal conditions. |
| CONDITIONS TO AVOID | Heat |
| MATERIALS TO AVOID | Strong oxidising agents |
| HAZARDOUS DECOMPOSITION PRODUCTS | In combustion emits toxic fumes. |

11. TOXOLOGICAL INFORMATION

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| HAZARDOUS INGREDIENTS | ORTHOPHOSPHORIC ACID...100% ORL RAT LD50 1530 mg/kg (C11-C14) PARETH (5-11) ORL RAT LD50 1.5g/kg |
| ROUTES OF EXPOSURE | Refer to section 4 of SDS for routes of exposure and corresponding symptoms. |

12. ECOLOGICAL INFORMATION

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| MOBILITY | Readily absorbed into soil. |
| PERSISTENCE AND DEGRADABILITY | Biodegradable. The surfactants contained in this preparation comply with biodegradability criteria laid down in regulation (EC) No.648/2004 on detergents. |
| BIOACCUMULATION POTENTIAL | No bioaccumulation potential. |
| OTHER ADVERSE EFFECTS | Negligible ecotoxicity. |

13. DISPOSAL CONSIDERATIONS

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| DISPOSAL OF PACKAGING | Dispose of as normal industrial waste. |
| N.B: | The user's attention is drawn to the possible existence of regional or national regulations regarding disposal. |

14. TRANSPORT INFORMATION



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| TRANSPORT LABELS | |
| ADR UN NO. | 3264 |
| ADR PACKAGING GROUP | III |
| ADR SHIPPING NAME | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ORTHOPHOSPHORIC ACID...20%) |
| ADR CLASS NO. | 8 |
| ADR CLASSIFICATION CODE | C1 |
| ADR HAZARD ID NO | 80 |
| IMDG UN NO. | 3264 |
| IMDG PACKAGING GROUP | III |

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|--------------------------|---------------------|
| IMDG LABELLING | 8 |
| IMDG MARINE POLLUTANT | - |
| IMDG CLASS | 8 |
| IMDG EmS | F-A,S-B |
| IATA UN NO. | 3264 |
| IATA PACKAGING GROUP | III |
| IATA PACKING INSTRUCTION | 818(P&CA); 820(CAO) |
| IATA LABELLING | 8 |
| IATA CLASS | 8 |

15. REGULATORY INFORMATION



LABELLING

RISK PHRASES

SAFETY PHRASES

HAZARDOUS INGREDIENTS

SEVESO II GUIDELINE

WATER HAZARD CLASS

AIR EMISSION DIRECTIVE

NOTE

IRRITANT (Xi)

R36/38 Irritating to eyes and skin.

S2 Keep out of reach of children, S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

ORTHOPHOSPHIC ACID...100%

NO

1 Classification by VwVwS

Amount m% 0

The regulatory information given above only indicates the principle regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006

1 LTR; LIMITED QUANTITY FOR ADR

5 LTR; LIMITED QUANTITY FOR ADR

RISK PHRASES USED IN S3

R34 Causes burns

R22 Harmful if swallowed

R41 Risk of serious damage to eyes.

LEGAL DISCALIMER

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.