

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SPARKLE (NZ)
Synonyms GLASS CLEANER.
Uses CLEANING AGENT, GLASS CLEANER.
Supplier Name JOHNSON DIVERSEY (NZ) LTD
Address 3 Diversey Lane, Papatoetoe Auckland, NEW ZEALAND
Telephone +64 9 278 2119
Fax +64 9 278 4286
Emergency + 0800 243 622

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA IN THE HS (MIN DEG OF HAZ) REGS 2001
NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO NZS 5433

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | Formula | Conc. | CAS No. |
|---------------------------------|-----------|-------|---------------|
| ETHYLENE GLYCOL MONOBUTYL ETHER | C6-H14-O2 | 1.5% | 111-76-2 |
| AMMONIUM HYDROXIDE | NH4-OH | <0.5% | 1336-21-6 |
| WATER | H2O | >60% | 7732-18-5 |
| CHELATING AGENT | | <1% | Not Available |
| DISPERSANT | | <1% | Not Available |
| ANIONIC SURFACTANT | | <1% | Not Available |
| DYE | | <0.1% | Not Available |

4. FIRST AID MEASURES

- Eye** Hold eyelids apart and flush continuously with water or sterile saline solution. Continue until advised to stop by the Poisons Information Centre or for at least 15 minutes.
- Inhalation** If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
- Skin** Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 0800 764 766 (0800 POISON) or +643 479 7248 (New Zealand) or a doctor. If swallowed, do not induce vomiting.
- Advice To Doctor** Treat symptomatically.

5. FIRE FIGHTING MEASURES

- Flammability** Non flammable. May evolve toxic gases (carbon/nitrogen oxides, hydrocarbons, ammonia) when heated to decomposition.
- Fire and Explosion** Non flammable. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon/ nitrogen oxides, ammonia) may be evolved. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

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5. FIRE FIGHTING MEASURES cont.

Extinguishing

Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVC/rubber gloves, a Type AK (Organic vapour, Ammonia) respirator (where an inhalation risk exists), coveralls and boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand or similar, collect and place in sealable containers for disposal.

7. HANDLING AND STORAGE

Handling Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

Storage Store in cool, dry, well ventilated area, removed from oxidising agents, alkalis, acids and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Ensure adequate natural ventilation. Maintain vapour levels below the recommended exposure standard.

Exposure Standards ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
ES-TWA : 25 ppm (121 mg/m³) SKIN

AMMONIUM HYDROXIDE (1336-21-6)
ES-TWA : 25 ppm (18 mg/m³) as Ammonia
ES-STEL : 35 ppm (27 mg/m³) as Ammonia

PPE Wear splash-proof goggles or safety glasses. With prolonged use, wear PVC or rubber gloves.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: CLEAR BLUE LIQUID
Odour: SLIGHT AMMONIA ODOUR
pH: 10.0 - 11.0
Vapour Pressure: 17.5 mm Hg @ 20 C
Vapour Density: NOT AVAILABLE
Boiling Point: 100 C
Melting Point: < 0 C
Evaporation Rate: AS FOR WATER
Solubility (water): SOLUBLE
Specific Gravity: 1.00
% Volatiles: > 60 % (Water)
Flammability: NON FLAMMABLE
Flash Point: NOT RELEVANT
Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT

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9. PHYSICAL AND CHEMICAL PROPERTIES cont.

Autoignition Temperature: NOT AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulfuric acid), alkalis (eg. hydroxides), heat and ignition sources.

Decomposition Products May evolve toxic gases (carbon/nitrogen oxides, hydrocarbons, ammonia) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low toxicity - irritant. When used in small quantities, the potential for over exposure is reduced. Use safe work practices to avoid eye - skin contact or vapour generation - inhalation. Chronic or high level exposure to glycols may cause kidney or liver damage. Dilution considerably reduces the potential hazards.

Eye Irritant. Exposure may result in lacrimation, irritation, pain, redness, conjunctivitis and possible corneal burns with prolonged contact.

Inhalation Irritant - slightly narcotic. Over exposure may result in mucous membrane irritation of the nose and throat with coughing. At high levels; lower respiratory tract irritation, nausea, dizziness, headache and possible breathing difficulties.

Skin Irritant. Prolonged and repeated contact may result in drying and defatting of the skin with rash and dermatitis.

Ingestion Low toxicity. Ingestion may result in gastrointestinal irritation, nausea and vomiting with large doses. Aspiration may result in chemical pneumonitis and pulmonary oedema.

Toxicity Data ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)
LC50 (Inhalation) : 700 ppm (mouse)
LD50 (Skin) : 230 mg/kg (guinea pig)
LD50 (Ingestion) : 300 mg/kg (rabbit)

AMMONIUM HYDROXIDE (1336-21-6)
LD50 (Ingestion) : 350 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

13. DISPOSAL CONSIDERATIONS

Waste Disposal For small amounts, absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts, contact the manufacturer for additional information. Prevent contamination of drains or waterways as aquatic life may be threatened and environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Transport Not classified as a Dangerous Good according to the New Zealand Land Transport Rule: Dangerous Goods 1999.

UN Number None Allocated

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14. TRANSPORT INFORMATION cont.

| | |
|---------------------------|----------------|
| DG Class | None Allocated |
| Subsidiary Risk(s) | None Allocated |
| Packing Group | None Allocated |
| Hazchem Code | None Allocated |

15. REGULATORY INFORMATION

| | |
|------------------------|--|
| Poison Schedule | A poison schedule number has not been allocated to this product using the criteria in The Toxic Substances Regulations 1983. |
|------------------------|--|

16. OTHER INFORMATION

Additional Information EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Information provided by Risk Management Technologies is summarised for ease of use. Additional technical information is available by calling +61 8 9322 1711.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

COLOUR RATING SYSTEM: Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

Report Reviewed 19th January 2005

Date Printed 8th February 2005

Report Status Chem Alert reports are compiled as an independent source of information by RMT's scientific department, based on the latest chemical and toxicological research and, where appropriate, in compliance with relevant standards, guidance notes and legislation. Where available the manufacturer's original MSDS is also provided to Chem Alert

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16. OTHER INFORMATION cont.

subscribers as a scanned image for their convenience. In many instances Chem Alert reports are compiled on behalf of manufacturers in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

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