

SAFETY DATA SHEET **DEMON FREEZE**

| SECTION 1: Identification of | the substance/mixture and of the company/undertaking | |
|---------------------------------|---|--|
| 1.1. Product identifier | | |
| Product name | DEMON FREEZE | |
| Product number | CDF999, CDF025, CDF003 | |
| 1.2. Relevant identified uses | of the substance or mixture and uses advised against | |
| Identified uses | Glass cleaner. | |
| 1.3. Details of the supplier of | the safety data sheet | |
| Supplier | TETROSYL LIMITED Bury | |
| | Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com | |
| Manufacturer | TETROSYL LIMITED Bury Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com | |
| 1.4. Emergency telephone number | | |
| Emergency telephone | +44 (0)161 764 5981 | |
| SECTION 2: Hazards identifi | cation | |
| 2.1. Classification of the subs | stance or mixture | |
| Classification (EC 1272/2008 | - | |
| Physical hazards | Flam. Liq. 3 - H226 | |
| Health hazards | Not Classified | |
| Environmental hazards | Not Classified | |
| 2.2. Label elements | | |
| Hazard pictograms | | |
| | | |

Signal word

Warning

| Hazard statements | H226 Flammable liquid and vapour. |
|--|--|
| Precautionary statements | P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/ container in accordance with national regulations. |
| Detergent labelling | < 5% perfumes |
| Supplementary precautionary statements | P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. |
| 2.3. Other hazards | |
| Not applicable. | |
| SECTION 3: Composition/info | rmation on ingredients |

| 3.2. Mixtures | | |
|---|----------------------|--|
| ETHANOL | | 10-<30% |
| CAS number: 64-17-5 | EC number: 200-578-6 | REACH registration number: 01- 2119457610-43-0000 |
| Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 | | |
| ETHANEDIOL | | 1-<2.5% |
| CAS number: 107-21-1 | EC number: 203-473-3 | REACH registration number: 01- 2119456816-28-0000 |
| Classification Acute Tox. 4 - H302 STOT RE 2 - H373 | | |
| IPA | | 1-<2.5% |
| CAS number: 67-63-0 | EC number: 200-661-7 | REACH registration number: 01- 2119457558-25-0000 |
| Classification | | |
| Flam. Liq. 2 - H225 | | |
| Eye Irrit. 2 - H319 | | |
| STOT SE 3 - H336 | | |

ETHYL ACETATE

CAS number: 141-78-6

EC number: 205-500-4

0.001 - <0.005% REACH registration number: 01-

2119475103-46-0000

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

| 4.1. Description of first aid mea | asures |
|-----------------------------------|---|
| General information | Get medical attention if any discomfort continues. Remove affected person from source of contamination. Effects may be delayed. Keep affected person under observation. |
| Inhalation | Remove affected person from source of contamination. Get medical attention if any discomfort continues. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. |
| Ingestion | Get medical attention if any discomfort continues. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel. |
| Skin contact | Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues. |
| Eye contact | Do not rub eye. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel. |
| 4.2. Most important symptoms | and effects, both acute and delayed |
| General information | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation. |
| Inhalation | Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression. Irritation of nose, throat and airway. |
| Ingestion | May cause discomfort if swallowed. May cause stomach pain or vomiting. Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication. Burning sensation in mouth. |
| Skin contact | Prolonged skin contact may cause redness and irritation. Mild dermatitis, allergic skin rash. |
| Eye contact | Irritation of eyes and mucous membranes. |
| 4.3. Indication of any immedia | te medical attention and special treatment needed |
| Notes for the doctor | No specific recommendations. If in doubt, get medical attention promptly. |
| SECTION 5: Firefighting meas | sures |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire- extinguishing media suitable for the surrounding fire. |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. |

| 5.2. Special hazards arising from the substance or mixture | |
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| | |

| 6.1. Personal precautions, protective equipment and emergency procedures | |
|---|--|
| SECTION 6: Accidental release measures | |
| Special protective equipment for firefighters | Leave danger zone immediately. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |
| 5.3. Advice for firefighters Protective actions during firefighting | No specific firefighting precautions known. |
| Hazardous combustion products | Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. |
| Specific hazards | Vapours may form explosive mixtures with air. May form explosive mixture with air at very high concentration. |

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of spray mist and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning upStop leak if possible without risk. Eliminate all sources of ignition. No smoking, sparks, flames
or other sources of ignition near spillage. Provide adequate ventilation. Provide adequate
ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid
the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-
combustible, absorbent material.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| Usage precautions | Read and follow manufacturer's recommendations. Keep away from heat, sparks and open |
|----------------------------|---|
| | flame. Wear suitable protective equipment for prolonged exposure and/or high concentrations |
| | of vapours, spray or mist. Good personal hygiene procedures should be implemented. Wash |
| | hands and any other contaminated areas of the body with soap and water before leaving the |
| | work site. Do not eat, drink or smoke when using the product. Avoid inhalation of |
| | vapours/spray and contact with skin and eyes. Avoid the formation of mists. Observe any |
| | occupational exposure limits for the product or ingredients. Avoid inhalation of vapours and spray/mists. |
| | |
| 1.2. CONDITIONS FOR SATE S | torage, including any incompatibilities |

- Storage precautions
 Keep away from heat, sparks and open flame. Keep container tightly closed. Keep containers upright. Keep only in the original container. Store away from the following materials: Acids. Oxidising materials.

 7.3. Specific end use(s)
- **Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m³ vapour Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m³ vapour Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate Sk $\,$

IPA

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment



| Appropriate engineering controls | Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. Provide adequate ventilation. |
|-------------------------------------|---|
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. It is recommended that gloves are made of the following material: Nitrile rubber. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex). |
| Other skin and body protection | Provide eyewash station. |
| Hygiene measures | Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. |
| Respiratory protection | No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Appearance | Clear liquid. |
|------------|----------------------------------|
| Colour | Green. |
| Odour | Slight alcoholic. Cherry. |
| рН | pH (concentrated solution): 9.00 |

| Melting point | Not determined. |
|---|--|
| Initial boiling point and range | 80°C @ 1.013 hPa |
| Flash point | 28.5°C |
| Evaporation rate | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |
| Vapour pressure | Not determined. |
| Vapour density | Not determined. |
| Relative density | 0.955g/cm³ @ 20°C |
| Solubility(ies) | Miscible with water. |
| Partition coefficient | Not determined. |
| Auto-ignition temperature | Not determined. |
| Decomposition Temperature | Not determined. |
| Viscosity | <10 mm²/s @ 20°C |
| Explosive properties | Not considered to be explosive. |
| 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 | |
| | |
| Other information | None. |
| Other information SECTION 10: Stability and rea | |
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| SECTION 10: Stability and rea 10.1. Reactivity Reactivity | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong |
| SECTION 10: Stability and rea 10.1. Reactivity Reactivity 10.2. Chemical stability | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. |
| SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. |
| SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. |
| SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. |
| SECTION 10: Stability and real 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. reactions Not determined. Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with acids. Avoid contact with the following materials: Acids. Oxidising agents. The following materials may react violently with the product: Earth metals such as sodium, |
| SECTION 10: Stability and reading 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid | The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. reactions Not determined. Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with acids. Avoid contact with the following materials: Acids. Oxidising agents. The following materials may react violently with the product: Earth metals such as sodium, |
| SECTION 10: Stability and reading 10.1. Reactivity Reactivity 10.2. Chemical stability Stability 10.3. Possibility of hazardous Possibility of hazardous reactions 10.4. Conditions to avoid Conditions to avoid 10.5. Incompatible materials | Intervity The following materials may react with the product: Acids. Aldehydes. Isocyanates. Strong oxidising agents. Stable at normal ambient temperatures and when used as recommended. Treactions Not determined. Avoid contact with strong oxidising agents. Avoid heat, flames and other sources of ignition. Avoid contact with acids. Avoid contact with the following materials: Acids. Oxidising agents. The following materials may react violently with the product: Earth metals such as sodium, potassium and barium. Strong acids. Strong oxidising agents. Alkali metals. Metal oxides. Aldehydes. Isocyanates. |

| SECTION 11: Toxicological information |
|---------------------------------------|
|---------------------------------------|

| SECTION II. TOXICOlogical II | normaion | |
|------------------------------------|---|--|
| 11.1. Information on toxicolog | jical effects | |
| Acute toxicity - oral | | |
| ATE oral (mg/kg) | 25,000.0 | |
| | | |
| Inhalation | No specific health hazards known. | |
| Ingestion | May cause discomfort if swallowed. | |
| Skin contact | Prolonged and frequent contact may cause redness and irritation. | |
| Eye contact | May cause temporary eye irritation. | |
| SECTION 12: Ecological info | rmation | |
| Ecotoxicity | The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment. | |
| 12.1. Toxicity | | |
| Acute aquatic toxicity | | |
| 12.2. Persistence and degrad | lability | |
| Persistence and degradability | There are no data on the degradability of this product. | |
| 12.3. Bioaccumulative potenti | ial | |
| Bioaccumulative potential | No data available on bioaccumulation. | |
| Partition coefficient | Not determined. | |
| 12.4. Mobility in soil | | |
| Mobility | The product is miscible with water and may spread in water systems. | |
| Adsorption/desorption coefficient | Not available. | |
| 12.5. Results of PBT and vPv | /B assessment | |
| Results of PBT and vPvB assessment | This substance is not classified as PBT or vPvB according to current EU criteria. | |
| 12.6. Other adverse effects | | |
| Other adverse effects | Not available. | |
| SECTION 13: Disposal consid | derations | |
| 13.1. Waste treatment metho | ds | |
| General information | Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. | |
| Disposal methods | Confirm disposal procedures with environmental engineer and local regulations. | |
| SECTION 14: Transport infor | SECTION 14: Transport information | |
| 14.1. UN number | | |
| UN No. (ADR/RID) | 1993 | |
| UN No. (IMDG) | 1993 | |
| UN No. (ICAO) | 1993 | |
| | | |

| UN No. (ADN) | 1993 | |
|--|--|--|
| 14.2. UN proper shipping name | | |
| Proper shipping name (ADR/RID) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, ETHYL ACETATE) | |
| Proper shipping name (IMDG) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, ETHYL ACETATE) | |
| Proper shipping name (ICAO) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, ETHYL ACETATE) | |
| Proper shipping name (ADN) | FLAMMABLE LIQUID, N.O.S. (CONTAINS ETHANOL, ETHYL ACETATE) | |
| 14.3. Transport hazard class(es) | | |
| ADR/RID class | 3 | |
| ADR/RID classification code | F1 | |
| ADR/RID label | 3 | |
| IMDG class | 3 | |
| ICAO class/division | 3 | |
| ADN class | 3 | |
| Transport labels | | |
| | | |
| 14.4. Packing group | | |
| ADR/RID packing group | III | |
| IMDG packing group | III | |
| ICAO packing group | III | |
| ADN packing group | III | |
| 14.5. Environmental hazards | | |
| Environmentally hazardous substance/marine pollutant No. | | |
| 14.6. Special precautions for user | | |
| EmS | F-E, S-E | |
| ADR transport category | 3 | |
| Emergency Action Code | •3Y | |
| Hazard Identification Number (ADR/RID) | 30 | |
| Tunnel restriction code | (D/E) | |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code | | |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. | |
| SECTION 15: Regulatory information | | |

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| National regulations | EH40/2005 Workplace exposure limits |
|----------------------|--|
| EU legislation | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

| SECTION 16: Other information | | |
|-------------------------------|--|--|
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. | |
| Issued by | Health & Safety Department | |
| Revision date | 31/10/2018 | |
| Revision | 5 | |
| Supersedes date | 09/10/2018 | |
| SDS number | 32867 | |
| SDS status | Approved. | |
| Hazard statements in full | H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure. | |