




Safety Data Sheet

| Section 1. Identification | | |
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| Product Identifier | Deep Freeze | Version: 9 Effective Date: 15 January 2021 |
| Other Means Of Identification | None | |
| Initial Supplier Identifier | Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055 | |
| Recommended Use and Restrictions On Use | Cleaner for deep freezers and walk-in coolers. No restrictions. | |
| Product Family | Blend | |
| Emergency Phone | 1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST | |

| Section 2. Hazard Identification | |
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| Hazard Classification |    |
| Physical Hazards | Flammable Liquid – Category 2 |
| Health Hazards | Acute Toxicity- Inhalation – Category 3 Acute Toxicity - Dermal – Category 3 Acute Toxicity - Oral – Category 3 Eye Damage/Irritation – Category 2A |
| Signal Word | Danger |
| Hazard Statement | Highly flammable liquid and vapour. Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed. Causes serious eye irritation. |
| Precautionary Prevention Statement | Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting equipment. Take action to prevent static discharges. |

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| | <p>Use non-sparking tools (if minimum ignition energy is <0.1mJ) Wear protective gloves, clothing, eye and face protection. Avoid breathing dust, fume, gas, mist, vapours and spray. Use only outdoors, or in a well-ventilated area.</p> |
| Precautionary Response Statements | <p>IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water or shower if on clothing. Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTRE. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. In case of fire: Use dry chemical, alcohol resistant foam, carbon dioxide to extinguish. Specific treatment do not induce vomiting unless directed by medical personnel. Call a doctor if you feel unwell.</p> |
| Precautionary Storage Statement | <p>Store in a well-ventilated area. Keep container tightly closed and cool. Store locked up.</p> |
| Precautionary Disposal Statement | <p>Dispose of contents / container in accordance with local regulations.</p> |
| Other Hazards | <p>None</p> |

| Section 3. Composition / Information on Ingredients | | | |
|--|--------------------------------|---|--------------------|
| Chemical Name | Common Name or Synonyms | CAS NO. and Other Unique Identifiers | % by weight |
| Methanol | Methyl alcohol | 67-56-1 | 30 – 50 |
| Balance of ingredients are considered non-hazardous and constitute a proprietary blend | | | |

| Section 4. First-Aid Measures | |
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| Eye Contact | Flush eyes with water for 15 minutes. Seek medical attention. |
| Skin Contact | Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse. |
| Inhalation | Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention. |

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| Ingestion | Rinse out mouth, and give two glasses of water. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention. |
| Most Important Symptoms and Effects Both Acute and Delayed | <p>Inhalation: Symptoms may include dizziness, headache, nausea and loss of coordination. CNS depression. Metabolic acidosis and severe visual effects can occur following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. Visual effects may include reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.</p> <p>Skin contact: Repeated exposure to this material can result in absorption through skin causing a significant health hazard. Repeated and/or prolonged skin contact may cause irritation.</p> <p>Eye contact: Causes serious eye damage.</p> <p>Ingestion: Ingestion of as little as 10 ml of methanol can cause blindness and 30 ml (1 ounce) can cause death if victim is not treated. Ingestion causes mild central nervous system (CNS) depression with nausea, headache, vomiting, dizziness, incoordination and an appearance of drunkenness. Metabolic acidosis and severe visual effects can occur following an 8-24 hour latent period. Coma and death, usually due to respiratory failure, may occur if medical treatment is not received. Visual effects may include reduced reactivity and/or increased sensitivity to light, blurred, double and/or snowy vision, and blindness.</p> |
| Immediate Medical Attention and Special Treatment | Ingestion: This product contains Methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolization is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by haemodialysis. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such may be used as an antidote in methanol poisoning. |

Section 5. Fire-Fighting Measures

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| Suitable and Unsuitable Extinguishing Media | Dry chemical, alcohol resistant foam, carbon dioxide. |
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| | Do not use a heavy water stream. Water may be effective for cooling, diluting, or dispersing methanol, but may not be effective for extinguishing a fire because it will not cool methanol below its flash point. If water is used for cooling, the solution will spread if not contained. Mixtures of methanol and water at concentrations greater than 20% methanol are still considered flammable. |
| Hazardous Combustion Products | Oxides of carbon |
| Specific Hazards Arising From the Product | May form flammable/explosive vapour-air mixture. |
| Special Protective Equipment and Precautions for Fire-Fighters | Fire-fighters should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire. |

Section 6. Accidental Release Measures

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| Personal Precautions, Protective Equipment and Emergency Procedures | Chemical resistant gloves (nitrile), boots, safety glasses, respirator, and fire retardant coveralls. Evacuate unnecessary personnel and secure area. Remove ignition sources. Ensure adequate ventilation. Avoid inhalation of vapours. Avoid contact with eyes, skin and clothing. |
| Environmental Precautions | Do not allow spilled material to enter surface drains and watercourses. |
| Methods and Materials for Containment and Clean-Up | Remove all sources of ignition. Flammable vapours may travel or be moved by air currents to sources of ignition such as pilot lights. Pump up large volumes of product if possible, dike and soak up remaining material on a suitable absorbent, place in a container for disposal. |

Section 7. Handling and Storage

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| Precautions For Safe Handling | Flammable liquid, handle with care. Ground all drums and containers when discharging or filling. Empty containers will be hazardous when empty, residues are flammable and can cause containers to explode. Do not cut or weld empty containers. |
| Conditions For Safe Storage | Store in a cool dry place. Keep containers tightly closed when not in use. Keep area well ventilated. Remove all sources of ignition. |

Section 8. Exposure Controls / Personal Protection

| Control Parameters | TWA: 8 Hr | STEL: 15 min | Ceiling | IDLH * |
|--------------------|-----------|--------------|---------|--------|
| Methanol | 200 ppm | 250 ppm | | |

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| | (AB, OEL) (AB, OEL) * Immediately Dangerous to Life and Health |
| Exposure Controls | Local exhaust ventilation |
| Appropriate Engineering Controls | Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. Both local exhaust and good general room ventilation must be provided not only to control exposure but also to prevent formation of flammable mixtures. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Use only explosion-proof equipment. |
| Individual Protective Measures | Not normally required under normal conditions of use. If exposure limits are exceeded: |
| Eye / Face Protection | Chemical goggles or safety glasses. Face-shield. |
| Skin Protection | Chemical resistant (rubber/ neoprene) gloves, coveralls and safety glasses. |
| Respiratory Protection | Air purifying respirator with organic vapour cartridges |

| Section 9. Physical and Chemical Properties | |
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| Appearance | Viscous pink liquid |
| Odour | Pleasant fruity odour |
| Odour Threshold | Not data |
| pH | 8 |
| Flash Point | 28 - 30 °C |
| Boiling Point and Boiling Range | No data |
| Melting Point and Freezing Point | - 35 °C |
| Evaporation Rate | No data |
| Flammability (solid, gas) | Not applicable |
| Upper and Lower Flammability or Explosive Limits | No data |
| Vapour Pressure | No data |
| Vapour Density | No data |
| Relative Density | 0.948 |
| Solubility | Soluble |
| Partition co-efficient, n-Octanol/Water | No data |
| Auto-ignition Temperature | No data |
| Decomposition Temperature | No data |
| Viscosity | No data |
| % Volatile | 30 - 50 |

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| Section 10. Stability and Reactivity | |
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| Reactivity | Stable |
| Chemical Stability | Stable |
| Possibility of Hazardous Reactions | Will not occur |
| Conditions to Avoid | None known |
| Incompatible Materials | Avoid contact with calcium hypochlorite, hypochlorite's, peroxides, strong acids, strong bases, strong oxidizing agents, and zinc. |
| Hazardous Decomposition Products | Will not decompose under normal conditions of use. |

| Section 11. Toxicological Information | | | |
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| Component Toxicity | LD50 Oral | LD50 Dermal | LC50 Inhalation |
| Methanol | LDLO 300 mg/kg (Human, oral) | 12.8g/kg (Rabbit) | 64000 ppm (Rabbit), 4h |
| Likely Routes of Exposure | | | |
| Skin: | May cause redness and irritation with prolonged contact. | | |
| Eyes: | May cause redness and tearing. May cause permanent eye damage. | | |
| Inhalation: | May cause irritation of the respiratory system, dizziness, stupor, cramps, unconsciousness and possibly death. | | |
| Ingestion: | Ingestion of this material may be harmful. Ingestion may lead to blindness. | | |
| Acute Toxicity Estimates (ATE) | Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. | | |
| STOT (Specific Target Organ Toxicity) – Single Exposure | Causes damage to organs. | | |
| Aspiration Toxicity | Not classified. | | |
| STOT (Specific Target Organ Toxicity) – Repeated Exposure | Not classified. | | |
| Skin Corrosion / Irritation | Not classified. | | |
| Serious Eye Damage / Irritation | Causes serious eye irritation. | | |
| Respiratory or Skin Sensitization | Not classified. | | |
| Carcinogenicity | This substance has no evidence of carcinogenic properties. | | |
| Reproductive Toxicity | | | |



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| - Sexual Function and Fertility | Not classified. |
| - Development of Offspring | Not classified. |
| - Effects on or via Lactation | Not classified. |
| Germ Cell Mutagenicity | Not classified. |
| Interactive Effects | None known |
| Other Information | Methanol can cause blindness and accumulate in the body. Methanol has caused birth defects in laboratory animals when inhaled at extremely high concentrations. |

| Section 12. Ecological Information | |
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| Ecotoxicity | Methanol: EC50: >10,000 mg/L Daphnia magna (48hr) |
| Persistence and Degradability | Will not persist |
| Bioaccumulative Potential | Not available |
| Biodegradability | Readily biodegradable |
| Mobility in Soil | Not available |
| Other Adverse Effects | None known |

| Section 13. Disposal Consideration | |
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| Disposal Considerations | Dispose of contents / container in accordance with local, provincial and federal regulations |

| Section 14. Transport Information | |
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| UN Number | 1230 |
| UN Proper Shipping Name | Methanol / Methyl Hydrate |
| Transport Hazard Class(es) | 3 (6.1) |
| Packaging Group | II |
| Environmental Hazards | Not applicable |
| Bulk Transport | Not applicable |
| Special Precaution | Not applicable |
| DOT Erg# | 131 |

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| Section 15. Regulatory Information | |
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| Canada – DSL Inventory | All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt |
| TSCA | All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt |
| Additional Information | None |

| Section 16. Other Information | |
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| NFPA Rating | Health-3/ Flammability-2/Reactivity-0/Special Hazard-Not applicable |
| HMIS Rating | Health-3/Flammability-2/Reactivity-0/Personal Protection-See Section 8. |
| Prepared by: | Chemfax Products Ltd., Technical Department |
| Date Prepared: | 29 June, 2012 |
| Date of Latest Revision: 15 January 2021 | |
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