

Safety Data Sheet (SDS)

SECTION I - IDENTIFICATION

MANUFACTURER/DISTRIBUTORRainbow Technology Corporation (800) 637-6047
 CONTACT PERSONLarry Joe Steeley, Jr.
EMERGENCY PHONE (24 HRS.).....Chem-Tel Inc. (800) 255-3924
 TRADE NAME/SYNONYMSCanadian Formula De-Icer
 PRODUCT NUMBER4060
 ISSUE DATEDecember 7, 2022
 REPLACES SDS DATEDOctober 7, 2015

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol: Category 1
 Gases Under Pressure: Compressed Gas
 Acute Toxicity, Oral: Category 3
 Acute Toxicity, Dermal: Category 3
 Acute Toxicity, Inhalation: Category 3
 Specific Target Organ Toxicity (Single Exposure): Category 1

HAZARD STATEMENT(S): DANGER: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Toxic if swallowed, in contact with skin and if inhaled. Causes damage to central nervous system, optic nerve, liver, kidneys.

This product contains the following percentage of chemicals of unknown toxicity: N/A

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product. If swallowed: Immediately call a poison center or doctor. Rinse mouth. Wear protective gloves and protective clothing. If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. Do not breathe mist, vapors or spray. Use only outdoors or in a well-ventilated area. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed, call a poison center or doctor. Dispose of contents and container in accordance with local state, and federal regulations.

SYMBOL:



HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Methanol	67-56-1	80-100%
Carbon dioxide	124-38-9	1-5%

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

INGESTION: Rinse mouth out with water. Do not induce vomiting unless directed by medical authority. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

SKIN: Immediately wash with water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek immediate medical attention.

ACUTE HEALTH HAZARDS: Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.

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CHRONIC HEALTH HAZARDS: May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS). May cause damage to eyes (including blindness), skin, lungs, respiratory and gastrointestinal tract.

NOTE TO PHYSICIAN: Treatment of overexposure should be directed at the control of symptoms and the clinical condition. Effects may be delayed. Ethanol may inhibit methanol metabolism.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, foam, and water spray or fog.

UNSUITABLE EXTINGUISHING MEDIA: Water jets or streams.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes and decomposition products. Cool fire exposed containers with water fog to prevent bursting.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTREMELY FLAMMABLE. Contents under pressure. Exposure to temperatures above 120 °F may cause bursting. Vapors heavier than air will settle in low lying areas and may travel to source of ignition and flash back. Keep away from heat, sparks, open flames and other sources of ignition.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, formic acid, formaldehyde, toxic fumes and gases.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Eliminate all sources of ignition. Absorb with non-combustible material like vermiculite, sand or earth. Place waste in proper containers for waste disposal. Small releases may be wiped up with wiping material.

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

RCRA STATUS: Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Do not use or store near heat, open flames or other sources of ignition. Wear proper personal protective equipment when using this product. Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Do not use or store with strong oxidizers. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50 °C/122 °F. Pressurized container: Do not pierce or burn, even after use. Store in a cool, dry area. Wash hands thoroughly after handling.

OTHER PRECAUTIONS: Keep out of the reach of children. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Vapors may collect in low lying areas. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

INCOMPATIBILITY: Strong acids and bases, oxidizing agents.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Methanol	200 ppm	200 ppm
Carbon dioxide	5000 ppm	5000 ppm

ENGINEERING CONTROLS / VENTILATION: Use only outdoors or in a well-ventilated area.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses/goggles, chemical resistant gloves and synthetic apron.

ADDITIONAL MEASURES: Wash hands thoroughly after handling. Do not breathe vapors. Do not eat, drink, or smoke while using product. Get medical attention if you feel unwell.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, colorless spray.

ODOR: Alcohol.

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ODOR THRESHOLD: N/D
pH: N/A
MELTING POINT/FREEZING POINT: N/D
INITIAL BOILING POINT AND BOILING RANGE: N/D
FLASH POINT: N/D
EVAPORATION RATE: N/D
FLAMMABILITY(solid/gas): Extremely Flammable Aerosol
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:
 LOWER FLAMMABILITY LIMIT: N/D
 UPPER FLAMMABILITY LIMIT: N/D
 EXPLOSIVE LIMIT LOWER (%): N/D
 EXPLOSIVE LIMIT UPPER (%): N/D
VAPOR PRESSURE (mm Hg): N/D
VAPOR DENSITY (AIR=1): N/D
RELATIVE DENSITY (H₂O=1): 0.78 - 0.82 @ 77 °F (25 °C).
SOLUBILITY(IES): N/D
PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D
AUTOIGNITION TEMPERATURE: N/D
DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY

REACTIVITY: None known.
CHEMICAL STABILITY: Stable.
POSSIBLE HAZARDOUS REACTIONS: None known.
CONDITIONS TO AVOID: Temperatures greater than 122 °F and sources of ignition. Avoid incompatibles.
INCOMPATIBLE MATERIALS: Strong acids and bases, oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **Methanol** (67-56-1): LD₅₀ (Oral, Rat) 1187-2769 mg/kg; LD₅₀ (Dermal, Rabbit) 17100 mg/kg; LC₅₀ (Inhalation, Rat, 4h) 85.26 mg/L. **Carbon dioxide** (124-38-9): LC₅₀ (Inhalation, Rat, 30m) 470,000 ppm.
ROUTES OF ENTRY: Eyes, Inhalation, Skin
EYES: Causes irritation. May cause conjunctivitis with possible corneal injury. Vapors and fumes can cause eye irritation.
INGESTION: Not a likely route of exposure under normal product handling conditions. Toxic if swallowed. May cause gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, dizziness.
INHALATION: Toxic if inhaled. Causes respiratory tract irritation, dizziness, drowsiness and central nervous system (CNS) depression. Acute exposure may cause nausea, vomiting, coughing and pulmonary irritation. Excessive exposure can cause blindness, unconsciousness and or death.
SKIN: Toxic if absorbed through the skin. May cause irritation, localized defatting, dermatitis with prolonged or repeated contact.
MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.
ACUTE HEALTH HAZARDS: Inhalation of vapors may be narcotic and can be fatal. Ingestion of liquid will cause gastrointestinal distress, irritation, possibly nausea, and can be fatal. Liquid or vapors may be irritating to skin and eyes.
CHRONIC HEALTH HAZARDS: May cause damage to the following: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS). May cause damage to eyes (including blindness), skin, lungs, respiratory and gastrointestinal tract.
CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SECTION XII – ECOLOGICAL INFORMATION

ECOTOXICITY: **Methanol** (67-56-1): LC₅₀ (*Pimephales promelas* [flow-through], 96h) 28200 mg/L; LC₅₀ (*Pimephales promelas* [static], 96h) > 100 mg/L; EC50 (*Daphnia*, 24h) 23500 mg/L [immobilization].
PERSISTENCE AND DEGRADABILITY: This product is biodegradable.
BIOACCUMULATIVE POTENTIAL: This product is not expected to bioaccumulate.
MOBILITY IN SOIL: This product is mobile in soil.
OTHER ADVERSE EFFECTS: None known.

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SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with local, state and federal regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

RCRA STATUS: Waste likely considered D001 (Ignitable waste), under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, flammable.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN1950

PACKING GROUP: N/A

ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): **Methanol** (67-56-1) Reportable Quantity = 5,000 pounds. **Ethylene glycol** (107-21-1) Reportable Quantity = 5,000 pounds.

SARA 311/312 HAZARD CATEGORIES: Flammable (gases, aerosols, liquids, solids). Gas under pressure. Acute toxicity (any route of exposure). Specific target organ toxicity (single or repeated exposure).

SARA 313 REPORTABLE INGREDIENTS: **Methanol** (67-56-1). **Ethylene glycol** (107-21-1).

CLEAN WATER ACT: **Methanol** (67-56-1) is a hazardous substance.

STATE REGULATIONS: **California Proposition 65: WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. **Methanol** (67-56-1): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA. **Ethylene glycol** (107-21-1): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: MA, NJ, PA, RI. **Propylene glycol** (57-55-6): Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states: PA, RI.

INTERNATIONAL REGULATIONS: Listed or exempt from listing/notification on the following chemical inventories: Domestic Substances List (DSL, Canada).

VOLATILE ORGANIC COMPOUNDS (VOC): 90.7%

NFPA HEALTH: 2

NFPA FLAMMABILITY: 3

NFPA REACTIVITY: 0

NFPA OTHER: None

HMIS HEALTH: 2

HMIS FLAMMABILITY: 3

HMIS REACTIVITY: 0

HMIS PROTECTION: C

SECTION XVI - OTHER INFORMATION

PREPARATION BY: Roberto Cerón

DATE PREPARED: 12/07/2022

REVISION DATE: N/A

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N/A = Not Applicable; N/D = Not Determined

DISCLAIMER: To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.