

MATERIAL SAFETY DATA SHEET

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I - Product Identification

Gas Line Antifreeze

PRODUCT CODE: 0650

CHEMICAL FORMULATION: Alcohol based solution.

NFPA HAZARD IDENTIFICATION SYSTEM: **HEALTH: 1** **FLAMMABILITY: 3** **REACTIVITY: 0**
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

<u>SUBSTANCE</u>	<u>APPROX</u> <u>%</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>EPA 40 CFR:</u>			<u>CAS #</u>
				<u>302</u>	<u>355</u>	<u>372</u>	
Methanol	> 90.0	200 ppm	200 ppm	Y	N	Y	67-56-1

Key: **PEL:** Permissible Exposure Limit **TLV:** Threshold Limit Value **C:** Ceiling level **STEL:** Short Term Exposure Limit
N/A: Not Applicable **N/D:** Not Determined **N/E:** Not Established **Y:** Yes **N:** No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): 148.5 **SPECIFIC GRAVITY (WATER = 1):** 0.81
VAPOR PRESSURE (mm Hg): 100 at 21.2°C **VOC CONTENT (% by weight):** N/D
VAPOR DENSITY (AIR = 1): 1.1 @ 20°C **EVAPORATION RATE (WATER = 1):** > 1.0
SOLUBILITY IN WATER: Soluble **pH:** N/A
APPEARANCE AND ODOR: Clear, colorless liquid; alcohol odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): 52 **(TEST METHOD):** Open Cup
FLAMMABLE LIMITS IN AIR (VOLUME %) **UPPER:** 36 **LOWER:** 6
EXTINGUISHING MEDIA: Water spray, water fog, alcohol resistant foam, dry chemical, CO₂.
SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus. Evacuate area and fight from a maximum distance or use unmanned hose holders or monitor nozzles. Heat may generate flammable or explosive vapors; disperse with water spray or cover pooling liquid with foam. Containers can build up pressure if exposed to heat; cool with flooding quantities of water until well after fire is out.
UNUSUAL FIRE AND EXPLOSION HAZARD: Methanol is TOXIC. Avoid all exposure, especially ingestion. Product can release vapors that form flammable mixtures at temperatures at or above the flashpoint. Vapors may travel long distances along the ground before reaching a source of ignition and flashing back. Material can burn with little or no visible flame. Containers may explode in heat of fire.

V - Reactivity Data

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizing agents, aluminum, zinc, or metals that displace hydrogen, rubber and rubber based coatings, chromic anhydride, lead perchlorate and perchloric acid.

CONDITIONS TO AVOID: Excess heat, sparks and open flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon and toxic vapors such as formaldehyde and formic acid.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None

VI - Health Hazard Data

ROUTES OF ENTRY INHALATION: X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X

INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None.

EFFECTS OF OVEREXPOSURE

IF IN EYES: Irritating, can cause conjunctivitis and or corneal opacity. Will injure eye tissue if not removed promptly.

IF ON SKIN: Irritation and dermatitis, with prolonged or repeated exposure. May cause significant toxicity.

IF SWALLOWED: Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema. Small doses (1 to 2 ounces) can cause metabolic acidosis leading to optic nerve damage ranging from diminished visual capacity to complete blindness, and death.

IF INHALED: Irritation to respiratory system, drowsiness, dizziness, headache.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.

IF ON SKIN: Flush with water for at least 15 minutes while removing any contaminated clothing. If irritation persists, obtain medical attention. Launder clothing separately before reuse.

IF SWALLOWED: Contact physician or poison control center immediately. Do not induce vomiting unless told to do so by a physician or poison control center. Keep person at rest.

IF INHALED: Remove person to fresh air. Administer artificial respiration if breathing has stopped. Obtain medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.

WASTE DISPOSAL METHOD: Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.

VENTILATION

LOCAL: Recommended

MECHANICAL: Not required

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place away from heat or open flame. Keep container tightly closed when not in use.

OTHER PRECAUTIONS: Keep out of reach of children.

IX - Transportation Information

DOT PROPER SHIPPING NAME: Methanol

DOT CLASS: 3

DOT ID NUMBER: UN1230

DOT PACKING GROUP: II

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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