

MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Number: 31000, 31000G55 Date: September 19, 2006 Replaces: August 17, 2006
Product Name: Star brite Windshield De-Icer Fluid
Manufacturer: Star brite Distributing, Inc. Information Phone: 954-587-6280
4041 S. W. 47 Avenue Emergency (Chemtrec): 800-424-9300 or 703-527-3887
Ft. Lauderdale, FL 33314

SECTION 2: PRODUCT COMPONENTS

<u>Hazardous Components</u>	<u>CAS#</u>	<u>Percent</u>	<u>Exposure Limits</u>
Methyl Alcohol (Methanol)	67-56-1	30-40	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV skin 250 ppm STEL ACGIH TLV
Propylene Glycol	57-55-6	1-10	None established-OSHA PEL 100mg/m3 Ceiling ACGIH TLV

Non-Hazardous Ingredients >1%

SECTION 3: HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW

Flammable liquid: Eye irritant. Inhalation may cause headache, dizziness, drowsiness, nausea, visual impairment, narcosis and unconsciousness. Methyl Alcohol may be absorbed through the skin in harmful amounts. Poisonous if swallowed.

POTENTIAL HEALTH EFFECTS:

ACUTE HAZARDS:

INHALATION: May cause irritation of the nose and throat with headache, particularly from mists. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, tingling, numbness and shooting pains in the hands and forearms, and visual disturbances.

SKIN CONTACT: Prolonged contact with the skin may cause redness and defatting of the skin and absorption of harmful amounts of methanol.

EYE CONTACT: Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

INGESTION: Contains methanol and propylene glycol. May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, malaise, blurring of vision, irritability, back pain, decrease in urine output, kidney failure, and central nervous system effects, including irregular eye movements, convulsions and coma. Visual effects from methanol include blurred vision, double vision, changes in color perception, restrictions of visual fields and complete blindness. Cardiac failure and pulmonary edema may develop. Signs of renal insufficiency may be delayed 36 to 48 hours post ingestion. A few reports have been published describing the development of weakness of the facial muscles, diminishing hearing and difficulty with swallowing, during the late stages of severe poisoning.

With massive overdoses of methanol, liver, kidney and heart muscle injury have been described. There may be a delay of several hours between swallowing methanol and the onset of signs and symptoms. Ingestion of moderate quantities of methanol also produces metabolic acidosis. 60-200 ml of methanol is a fatal dose for most adults. Ingestion of as little as 10 ml may cause blindness.

CHRONIC EFFECTS: Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, including nausea, vomiting, headache, ringing in the ears, dizziness, vertigo, cloudy and double vision. Prolonged overexposure at levels of 800-1000 ppm may result in severe eye damage. Prolonged or repeated skin contact may cause skin sensitization and an associated dermatitis in some individuals.

SECTION 3: HAZARDOUS IDENTIFICATION cont'd

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Due to its defatting properties, methanol may aggravate an existing skin condition, e.g., eczema. Due to its liver and kidney injuring potential, the product may exacerbate existing liver and/or kidney diseases.

CARCINOGEN: None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

SECTION 4: FIRST AID MEASURES

INHALATION: Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. If irritation persists, get medical attention.

EYE CONTACT: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Seek immediate medical attention. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

NOTES TO PHYSICIAN: The combination of visual disturbances, metabolic acidosis and an osmal gap is evidence of methanol poisoning. Ethanol is antidotal and its early administration may block the formation of toxic metabolites of methanol. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood levels should be checked frequently. Hemodialysis may be required. 4-Methylpyrazole, a potent inhibitor of alcohol dehydrogenase has been used therapeutically to decrease the metabolic consequences of methanol.

Seek consultation with a physician toxicologist or poison control center.

SECTION 5: FIRE AND EXPLOSION DATA

FLASH POINT: 99° F (38.3° C) Setflash 99° F (37° C) FMCC

FLAMMABILITY LIMITS:
UEL: 36% (Methanol)

AUTOIGNITION TEMPERATURE: Not determined.

EXTINGUISHING MEDIA: Use water fog, carbon dioxide, alcohol foam or dry chemical. Cool fire exposed containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

UNUSUAL FIRE HAZARDS: Flammable liquid. Methanol-water mixtures will burn unless very dilute. Flame is invisible in daylight. Vapors are heavier than air and may flow along surfaces to distant ignition sources and flashback.

HAZARDOUS COMBUSTION PRODUCTS: Burning may produce carbon monoxide and carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources. Ventilate area. Wear appropriate protective clothing and equipment. (See Section 8). Collect with absorbent material and place in a container suitable for flammable waste.

SECTION 7: HANDLING AND STORAGE

Danger: May be fatal or cause blindness if swallowed.

Do not swallow.

Avoid eye and skin contact.

Avoid breathing vapors or mists.

Use only with adequate ventilation.

Wash exposed skin thoroughly with soap and water after use.

Flammable liquid.

Keep away from heat, sparks, open flames and all other sources of ignition.

Do not smoke during use.

Store product below 120°F and away from direct sunlight.

Store in cool, well ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

RESPIRATORY PROTECTION: For operations where the TLV is exceeded a NIOSH approved supplied air respirator or positive pressure self-contained breathing apparatus is recommended. Organic vapor cartridge respirators are not recommended for methanol vapor exposures. Equipment selection depends on containment type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Chemical resistant gloves such as butyl rubber or Viton where contact is possible.

EYE PROTECTION: Splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear yellow liquid with a slight alcohol odor. The reported mean odor threshold for methanol is 160 - 690 ppm.

pH: 6.3

BOILING POINT (F): 178° F

FREEZING POINT (F): -35° F

SOLUBILITY IN WATER: 100%

PERCENT VOLATILE: >95%

SPECIFIC GRAVITY: 7-9 lbs/gal

VAPOR PRESSURE: Not determined

VAPOR DENSITY: >1

EVAPORATION RATE: >1 (Butyl Acetate=1)

VISCOSITY: Approximately 1

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks, flames and other sources of ignition.

INCOMPATIBILITY: Strong bases, strong acids, strong oxidizing agents, materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Methanol: LD50 Oral Rat: 9100 mg/kg
LD50 Skin Rabbit: 15,940 mg/kg
LD50 Inhalation Rat: 145,000 ppm1hr

SECTION 12: ECOLOGICAL INFORMATION

Methanol: TLM 96: >1000 ppm

SECTION 13: DISPOSAL INFORMATION

Dispose of product as hazardous waste (ignitable) in accordance with all local, state/provincial and federal regulations.

SECTION 14: TRANSPORT INFORMATION

Call for information

SECTION 15: REGULATORY INFORMATION

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health, fire hazard

EPA SARA 313: This product contains the following chemicals subject to annual release reporting requirements under SARA Title 111, Section 313 (40 CFR 372):

Methanol 67-56-1 30-40%

PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methanol (40% maximum) of 5,000 lbs, is 12,500 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65 - This product does not contain chemicals regulated under California Proposition 65.

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS) - All of the ingredients are listed on the EINECS inventory.

AUSTRALIA: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances.

SECTION 16: OTHER INFORMATION

NFPA RATING (NFPA 704) - FIRE: 3

HEALTH: 2

REACTIVITY: 0

This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

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