

# MATERIAL SAFETY DATA SHEET

Manufacturer: Star brite Distributing, Inc  
4041 S. W. 47 Avenue  
Ft. Lauderdale, FL 33314

Emergency Number: 800-424-9300 or 703-527-3887 Chemtrec  
Information Number: 954-587-6280

Product Code: 31600, 316G55

Date Printed: October 12, 2006

Replaces: June 18, 2005

Product: Star brite PG Anti-Freeze -200° Concentrate

## 1. INGREDIENTS: (% w/w, unless otherwise noted)

Propylene glycol	CAS# 000057-55-6	96%
Dipotassium phosphate	CAS# 007758-11-4	<2%
Deionized water	CAS# 007732-18-5	<2%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

## 2. PHYSICAL DATA:

BOILING POINT:	370° F, 188° C
VAPOR PRESSURE:	0.22 mmHg @ 22° C, 68° F
VAPOR DENSITY:	2.62
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.050 @ 60/60° F, 16° C
APPEARANCE:	Colorless.
ODOR:	Odorless liquid.

## 3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT:	215° F, 102° C
METHOD USED:	TOC (Tag Open Cup)

FLAMMABLE LIMITS  
LEL: 2.6% @ 100° C  
UEL: 12.5% @ 130° C

EXTINGUISHING MEDIA: Water, fog, carbon dioxide, dry chemical, foam. For large scale fires, alcohol resistant foams are preferred if available. General purpose synthetic foams or protein foams may function, but much less effectively. Water may be used to flush spills away from fire exposures and to dilute spills to non-flammable mixtures. If possible, contain fire run-off water. For large scale fires, direct water stream may cause violent frothing, but fine water spray may help control situation.

FIRE & EXPLOSION HAZARDS: Keep unnecessary people away; isolate hazard area and deny unnecessary entry. When using water spray, boil-over may occur when the product temperature reaches the boiling point of water (tank-type scenarios, not spills).

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained breathing apparatus and full protective equipment.

## 4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) - Stable over normal operating temperature range of -30° F to 250° F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) - Oxidizing material.

4. REACTIVITY DATA CONT'D:

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may produce carbon dioxide, carbon monoxide and water. Unidentified organic compounds may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Keep out of sewers, storm drains, surface waters and soil. Cover with absorbent material, soak up and sweep into bag.

DISPOSAL METHOD: DO NOT DUMP INTO STORM SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. FOR DISPOSAL, DISCHARGE INTO SANITARY SEWERS IS ONLY ALLOWABLE WITH THE EXPLICIT PRE-APPROVAL OF THE LOCAL BIOLOGICAL WASTEWATER TREATMENT FACILITY. For unused or uncontaminated material, the preferred disposal options are to send to a licensed recycler, reclaimer, or incinerator. The same disposal options are recommended for used or contaminated material, although additional evaluation is required (see, for example, 40 CFR, Part 261, "Identification and Listing of Hazardous Waste"). Any disposal practice must be in compliance with federal, state, provincial, and local laws and regulations. Check with the appropriate agencies for your location. For additional information, see Section 4 (REACTIVITY DATA) and "REGULATORY INFORMATION".

6. HEALTH HAZARD DATA:

EYE: May cause slight transient eye irritation. Corneal injury is unlikely.

SKIN CONTACT: Essentially nonirritating to skin on prolonged contact.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is greater than 10,000 mg/kg. Repeated exposures may cause slight flaking, tenderness and softening of skin.

INGESTION: Single dose oral toxicity is low. The oral LD50 for female rats is about 20.3 g/kg. No Hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: A single prolonged (hours) inhalation exposure is not likely to cause adverse effects. Mists are not likely to be hazardous.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Repeated excessive ingestion may cause central nervous system effects.

CANCER INFORMATION: Did not cause cancer in long-term animal studies.

TERATOLOGY (BIRTH DEFECTS): Birth defects are unlikely. Exposures having no adverse effects on the mother should have no effect on the fetus.

REPRODUCTIVE EFFECTS: In animal studies, has been shown not to interfere with reproduction.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Results of in vitro (test tube) mutagenicity tests have been negative. Results of mutagenicity tests in animals have been negative.

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7. FIRST AID:

EYES: Flush with plenty of water.

SKIN: Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical personnel.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): Propylene glycol: AIHA WEEL is 50 ppm total, 10 mg/m<sup>3</sup> aerosol only.

VENTILATION: Good general ventilation should be sufficient for most conditions.

RESPIRATORY PROTECTION: No respiratory protection should be needed.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use safety glasses.

9. ADDITIONAL INFORMATION:

SPECIFIC PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Exercise reasonable care and caution.

Spills of these organic liquids on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

10. TRANSPORTATION INFORMATION:

THIS PRODUCT IS NOT REGULATED BY D.O.T., IATA OR IMDG

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REGULATORY INFORMATION: (Not meant to be all-inclusive -- selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U. S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III section 313 supplier notification requirements.

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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

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TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is not a "Controlled Product" under WHMIS.

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CANADIAN TDG INFORMATION: For guidance, the Transportation of Dangerous Goods Classification for this product is:

Not regulated.