

MATERIAL SAFETY DATA SHEET

STAR BRITE BIO-SAFE ANTI-FREEZE & COOLANT

PRODUCT NO. 31700, 317G55

PRODUCT: Star brite Bio-Safe -100° PG Anti-Freeze & Coolant

NFPA HAZARD IDENTIFICATION:

Health: 0	0 – Least
Fire: 1	1 – Slight
Reactivity: 0	2 – Moderate
	3 – High
	4 – Extreme

SECTION 1 – GENERAL INFORMATION

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

Emergency – (Chemtrec) 800-424-9300 or 703-527-3887
Information – 954-587-6280
Date – June 18, 2005

SECTION II – COMPOSITION/INFORMATION OR INGREDIENTS

COMPONENT NAME	%	CAS
PEL MIST	PEL VAPOR	
Sodium Nitrite	< 1	7632-00-0
None established		
Sodium Silicate	< 1	1344-09-8
None established		
NON-HAZARDOUS INGREDIENTS	>1%	
Propylene Glycol	93	57-55-6
None established		
Water	2	
Proprietary additives	4	

(Does not contain IARC, NTP, OSHA and ACGIH listed carcinogens greater than 0.1%)

SECTION III – HAZARDS IDENTIFICATION

EYE CONTACT: May cause minor eye irritation.

SKIN CONTACT: No significant adverse affects are expected under anticipated conditions of normal use. Repeated, prolonged exposure may cause slight flaking, tenderness, and softening of skin.

INHALATION: No significant adverse effects are expected under anticipated conditions of normal use. If effects do occur, refer to FIRST AID section.

INGESTION: No significant adverse effects are expected under anticipated conditions of normal use. Excessive ingestion may cause central nervous system effects.

SIGN AND SYMPTOMS OF OVEREXPOSURE: as above.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Material and/or its emissions may aggravate pre-existing eye disease.

OTHER HEALTH INFORMATION: None.

SECTION IV – FIRST AID PROCEDURES

EYE CONTACT:	Immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain medical attention if pain, blinking, tears or redness persist.
SKIN CONTACT:	Product is not expected to present a significant skin hazard under anticipated conditions of normal use.
INHALATION:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
INGESTION:	If large quantity is swallowed, give a pint of lukewarm water if victim is completely conscious and alert. If large quantities are consumed, induce vomiting. Obtain emergency medical attention.

SECTION V – FIRE AND EXPLOSION HAZARD DATA

Flash Point (deg F): 211.

Flammable or Explosive Limits (approximate % by volume in air) LEL: 2.4 UEL; 17.4.

EXTINGUISHING MEDIA: carbon dioxide, dry chemical, alcohol type foam, water spray, water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear positive pressure, self contained breathing apparatus and other protective apparatus as warranted. Fight fire from distance or protected location – heat may build up pressure and rupture closed containers. Liquid may form slippery film. Use water spray or fog cooling, solid stream may spread fire as burning liquid will float on water. Avoid frothing/steam explosion. Notify authorities if liquid enters sewers/public water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier and travel long distances along ground before igniting and flashing back. Fine sprays and mists may be combustible at temperatures below normal flash point.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Prevent flow to sewers and public waters as it may contaminate said water. Restrict water usage to prevent slip/fall hazard. Soak up small spills and inert solids. Dike and recover large land spills. Notify appropriate authorities if product enters any waterway.

SECTION VII – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in tightly closed and properly vented containers, away from heat, sparks, open flame, and strong oxidizing agents.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: No special respiratory protection equipment is recommended under normal conditions of anticipated use with adequate ventilation.

VENTILATION: Adequate general ventilation is required, local exhaust is recommended if possible.

PROTECTIVE GLOVES: Not required.

EYE PROTECTION: Chemical splash goggles or full face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. Contact lenses should not be worn.

OTHER PROTECTIVE EQUIPMENT: None

WORK PRACTICES/ENGINEERING CONTROLS: Keep containers closed when not in use.

PERSONAL HYGIENE: If product handling results in skin contact, wash hands and other exposed areas with mild soap and water before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse.

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SECTION IX – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point (deg F): 365
Specific Gravity (H2O=1):1.04
Vapor Pressure (mm Hg): <0.1
Melting Point (deg F): -76
Vapor Density (Air=1): 2.6
Sodium Nitrite 2400 ppm
Solubility in Water: complete
Evaporation Rate (n-butyl Acetate=1): slight

APPEARANCE AND ODOR: dark green, slightly viscous almost odorless liquid.

SECTION X – REACTIVITY DATA

STABILITY: Stable.

CONDITIONS TO AVOID: Heat, sparks, open flame.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalis, strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and other toxic vapors.

HAZARDOUS POLYMERIZATION: Not expected to occur.

SECTION XI – ECOLOGICAL INFORMATION

See Section IV.

SECTION XII – ECOLOGICAL INFORMATION

No chemicals in this product are subject to the reporting requirements of CIRCLE.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Landfill solids at permitted sites using registered transporters. Burn concentrated liquids, avoiding flameouts, and assuring emissions comply with applicable regulations.

SECTION XIV – TRANSPORT INFORMATION

Call for information.

SECTION XV – REGULATORY INFORMATION

WHIMS classification for product: n/a.

This product has been classified in accordance with the hazard criteria of the CAR and the MSDS contains all of the information required by the CFR.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we received from sources outside our company and we believe that information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.