

# Material Safety Data Sheet



## ANTI-FREEZE

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### SECTION I - IDENTIFICATION

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MANUFACTURER'S NAME .....Haviland Consumer Products, Inc.  
MANUFACTURER'S ADDRESS .....421 Ann St., N.W., Grand Rapids, MI 49504  
PHONE NUMBER..... (616) 361-6691  
EMERGENCY PHONE NUMBER .....CHEMTREC (800) 424-9300  
EFFECTIVE DATE.....08/01/05  
TRADE NAME.....**ANTI-FREEZE**  
CHEMICAL FAMILY.....Miscellaneous Blend

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### SECTION II - HAZARDOUS INGREDIENTS

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HAZARDOUS INGREDIENTS	OSHA PEL	TLV (Units)	CAS NUMBER
Propylene Glycol @ 20% by wt.	Not Established	Not Established	57-55-6
Ethyl Alcohol @ 9% by wt.	1000 ppm	1000 ppm	64-17-5
Isopropyl Alcohol @ 1% by wt.	400 ppm	400 ppm	67-63-0

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### SECTION III - PHYSICAL DATA

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BOILING POINT ..... 370°F  
FREEZING POINT ..... Product will not freeze, but will slush  
VAPOUR PRESSURE ..... < 0.1  
VAPOUR DENSITY (air=1) ..... 2.6  
SOLUBILITY IN H<sub>2</sub>O..... Completely  
ODOUR AND APPEARANCE ..... Clear, red or blue liquid, slightly viscous, almost odorless liquid  
SPECIFIC GRAVITY ..... 1.03  
pH..... Not Established

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### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

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FLASHPOINT AND METHOD OF DETERMINATION .....190°F  
LOWER EXPLOSIVE LIMIT (% by Volume) ..... 2.6  
UPPER EXPLOSIVE LIMIT (% by Volume) ..... 12.5  
MEANS OF EXTINCTION.....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. Use water spray or fog for cooling; solid stream may spread fire as burning liquid will float on water. Liquid may form slippery film.  
UNUSUAL FIRE HAZARD.....None known

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## SECTION V - HEALTH HAZARD DATA

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CARCINOGENICITY, REPRODUCTIVE EFFECTS ..... None  
NTP? ..... No  
IARC MONOGRAPHS? ..... No  
OVER EXPOSURE EFFECTS ..... Eye contact may cause minor irritation. Prolonged exposure to the skin may cause slight flaking and tenderness. Excessive ingestion may cause central nervous system effects.  
PRIMARY ROUTE(S) OF ENTRY ..... Eye contact, skin contact, inhalation, ingestion  
SPECIFIC FIRST AID PROCEDURES ..... In case of contact: Immediately flush eyes and skin with plenty of water for at least 15 minutes. For eyes, get medical attention. If inhaled: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention. If swallowed in large quantity, give a pint of lukewarm water if victim is completely conscious and alert. If large quantities are consumed, induce vomiting. Obtain emergency medical attention immediately.  
EXPOSURE AGGRAVATED MEDICAL CONDITIONS ..... Material and/or its emissions may aggravate pre-existing eye disease.

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## SECTION VI - REACTIVITY DATA

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CHEMICAL STABILITY ..... Stable  
CONDITIONS TO AVOID ..... Heat, sparks, open flame  
INCOMPATIBLE MATERIALS ..... Strong alkalis, strong oxidizing agents  
HAZARDOUS DECOMPOSITION PRODUCTS ..... Carbon monoxide, and other toxic vapors  
HAZARDOUS POLYMERIZATION ..... Will Not Occur  
POLYMERIZATION AVOID ..... Not Applicable

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## SECTION VII - SPILL OR LEAK PROCEDURE

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LEAK AND SPILL PROCEDURES ..... Restrict water usage to prevent slip/fall hazard. Soak up small spills with inert solids. Dike and recover large land spills. Notify the proper authorities if product enters any waterway.  
WASTE DISPOSAL ..... Dispose of in accordance to all applicable federal, state and local environmental regulations.

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## SECTION VIII - SPECIAL PROTECTION

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RESPIRATORY PROTECTION ..... No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.  
VENTILATION ..... Adequate general ventilation is required; local exhaust is recommended.  
PROTECTIVE GLOVES ..... Not required  
EYE PROTECTION ..... Chemical splash goggles or full face shield must be worn when the possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor.  
OTHER PROTECTIVE EQUIPMENT ..... None  
HANDLING PROCEDURES AND EQUIPMENT ..... Store in tightly closed and properly vented containers, away from heat, sparks, open flame and strong oxidizing agents.

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## SECTION IX - SPECIAL PRECAUTIONS

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HAZARD CLASS ..... None  
DOT SHIPPING NAME ..... Not regulated  
UN NUMBER ..... None  
REPORTABLE QUANTITY (RQ) ..... Not Listed

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REFERENCES

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HMIS RATING: H-0, F-1, R-0