

Polaris Material Safety Data Sheet

Polaris Sales Inc.
2100 Highway 55
Medina, MN 55340

Emergency: 800-424-9300
Information: 763-542-0500

SECTION 1 CHEMICAL PRODUCT IDENTIFICATION

Product: POLARIS ANTIFREEZE 50/50 PRE-MIX PG
Synonyms/Other: Not applicable.
Part Number: 2875041, 2875042, 8570099
MSDS Number: 1449
Product Type: Propylene glycol based coolant/antifreeze
Preparation/Revision Date: 02/26/2004

SECTION 2 COMPOSITION INFORMATION

INGREDIENTS	CAS #	%	OSHA TWA	OSHA STEL	ACGIH TWA	SKIN
Propylene Glycol	57-55-6	47-48	Not established	Not established	Not established	NO
Proprietary additives	--	0.5-1.5	Not established	Not established	Not established	NO
Water	7732-18-5	49	--	--	--	NO
Comments:	Not applicable.					

SECTION 3 HAZARDOUS IDENTIFICATION

Eye contact: Direct contact may cause irritation, redness, tearing and blurred vision.
Skin contact: Prolonged contact may cause skin irritation.
Inhalation: Information not available.
Ingestion: Slightly toxic by ingestion; ingesting large amounts may cause central nervous system effects.

SECTION 4 FIRST AID MEASURES

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.
Skin contact: Wash skin with soap and water.
Inhalation: If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.
Ingestion: If large quantity is ingested give a pint of water and induce vomiting only if victim is completely conscious and alert. Seek immediate medical attention.

SECTION 5 FIRE FIGHTING MEASURES

Flash point: None
Flammable limits: Not applicable.
Extinguishing media: Use water spray, dry chemical, alcohol-resistant foam, all purpose AFFF or carbon dioxide to extinguish fire.
Special firefighting procedures: Evacuate area and fight fire from a safe distance. If leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak.

Use water spray to cool adjacent structures and to protect personnel. Shut off source of flow if possible (safely). Stay away from storage tank ends. Withdraw immediately in case of rising sound from venting safety device or any discoloration of storage tank due to fire.

Fire fighters must wear MSHA/NIOSH approved positive pressure breathing

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Unusual fire & explosion hazards:	apparatus (SCBA) with full face mask and full protective equipment. Dense smoke may be generated while burning. Toxic fumes, gases or vapors may evolve on burning. Heavy flammable vapors may settle along ground level and low spots to create an invisible fire hazard. The vapors may extend to sources of ignition and flash back.
Byproducts of combustion:	Fires involving this product may release COx, NOx, SOx, reactive hydrocarbons and irritating vapors.
Autoignition temperature:	Information not available.
Explosion data:	Not determined. Care should always be exercised in dust/mist areas.
Other:	Not applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill control procedures (land):	Contain fluid with noncombustible absorbent material and place into container for disposal. For large spills: Contain fluid with noncombustible absorbent material. Use plastic shovel to put material into containers. Eliminate all sources of ignition. Prevent fluid from running into storm sewers or natural waterways.
Spill control procedures (water):	Material will readily mix with water. If a large spill occurs notify appropriate authorities (normally the National Response Center or Coast Guard).
Waste disposal method:	Dispose according to applicable local, state and federal laws. Contact local or state agencies to obtain information on recycling.
Other:	Not applicable.

SECTION 7 HANDLING AND STORAGE

Handling procedures:	Wash thoroughly after handling. Store containers closed and away from extreme temperatures. Keep out of the reach of children.
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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection:	Applicable mainly to persons in repeated contact situations such as packaging of product, service/maintenance, and cleanup/spill control personnel.
Respiratory protection:	None special.
Eye protection:	Chemical goggles or face shield.
Hand protection:	Impervious gloves such as neoprene or nitrile rubber to avoid skin sensitization and absorption.
Other protection:	Use of an apron and overboots of chemically impervious materials such as neoprene or nitrile rubber is recommended.
Local control measures:	Use adequate ventilation when working with material in an enclosed area. Mechanical methods such as fume hoods or area fans may be used to reduce localized vapor/mist areas.
Other:	Consumption of food and drink should be avoided in work areas where product is present. Always wash hands and face with soap and water before eating, drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Vapor pressure:	<0.1 mmHg
API gravity:	Not determined.
Specific gravity:	Not determined.
Solubility in water:	100%
Percent volatile(VOC):	Not applicable.
Evaporation rate	
(n-Butyl Acetate=1):	Not applicable.
Appearance:	Clear pink liquid
Viscosity:	Not determined.

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Boiling point: 221F
PH: 10.5-10.8

SECTION 10 STABILITY AND REACTIVITY

Stability: Material is stable at room temperatures and pressure.
Conditions to avoid: Avoid high temperatures and product contamination.
Incompatibility with other materials: Avoid contact with acids and oxidizing materials. Also avoid contact with caustics and aliphatic amines.
Decomposition products: Smoke, carbon monoxide, carbon dioxide, reactive hydrocarbons and irritating vapors.
Hazardous polymerization: Will not occur.
Other: Not applicable.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral toxicity: May cause general anesthesia, convulsions and changes in surface EEG.
Dermal toxicity: Contact may result in skin irritation.
Inhalation toxicity: Information not available.
Carcinogenicity/Chronic toxicity: Material contains items not listed by OSHA, IARC or NTP.
Mutagenicity: Information not available.
Reproductive toxicity: Information not available.

SECTION 12 ECOLOGICAL INFORMATION

Environmental toxicity: Information not available.
Environmental fate: Information not available.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal method: Dispose according to applicable local, state and federal laws. Contact local or state agencies to obtain information on recycling.

SECTION 14 TRANSPORT INFORMATION

U.S. DOT shipping description: Not regulated
U.S. DOT identification number: Not applicable
U.S. DOT hazard classification: Not applicable.
Packaging class: Not applicable.

SECTION 15 REGULATORY INFORMATION

Clean water act/oil pollution act: Contact the National Response Center at 800-424-8802 in the case of a spill that enters waterways.
SARA Title III: Section 302/304 extremely hazardous substances: None
OSHA Regulations: This product contains propylene glycol that is an OSHA regulated hazardous substance.
Section 311, 312 hazard categorization:
Acute (immediate health effects): YES
Chronic (delayed health effects): NO
Fire (hazard): NO
Reactivity (hazard): NO
Pressure (sudden release hazard): NO
Section 313 toxic chemicals: None

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CERCLA: For stationary sources – reportable quantity:
Not applicable.
For moving sources – reportable quantity:
Not applicable.

SECTION 16

OTHER INFORMATION

	NFPA 704	NPCA-HMIS	KEY
HEALTH:	0	0	0 = Minimal
FIRE:	1	1	1 = Slight
REACTIVITY:	0	0	2 = Moderate
SPECIFIC HAZARD:	N/A	N/A	3 = Serious
PROTECTION INDEX:	N/A	8	4 = Severe

This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Polaris must rely on information provided by those materials manufacturers or distributors.

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File: Polaris Antifreeze 50/50 Pre-Mix PG (1449)
Version: 1

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Revisions / Comments: