

HALL CHEM MFG. INC.1270 rue Nobel
Boucherville Qc J4B 5H1

Tel. : (450) 645-0296

Fax : (450) 645-0444

MATERIAL SAFETY DATA SHEET**EMERGENCY : CANUTEC (613) 996-6666****MSDS : PG350-2****PRODUCT IDENTIFICATION AND USE**

NAME OF PRODUCT : Solar II 50-50

USE OF PRODUCT : Non toxic HVAC antifreeze

TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME :

WHMIS CLASSIFICATION: NOT REGULATED

P.N.I. : NR

PRIMARY CLASS : Not toxic

PACKING GROUP :

SUBSIDIARY CLASS :

COMPONENTS

| COMPOSITION | % V/V | CASE # | LD ₅₀ mg/kg Oral/rat | LC ₅₀ | TLV ppm 8h |
|------------------|-------|---------|------------------------------------|------------------|------------|
| Propylene glycol | 50 | 57-55-6 | 20 000-34 000 | | |
| Rust inhibitor | | | | | |

PHYSICAL CHARACTERISTICS

| | | | |
|---|--|---|--|
| PHYSICAL STATE : Liquid | APPEARANCE : Slightly viscous , Pink | ODOR : Typical | ODORTRESHOLD : Not available |
| VAPOR TENSION (20°C): Not available | VAPOR DENSITY (air =1): >1 | EVAPORATING RATE : Not available | |
| BOILING RANGE : 107°C (225°F) | FREEZING POINT : -34°C (-29°F) | pH : 9.5 to 10.8 | |
| DENSITY (20°C) : 1,03 | DISTRIBUTION FACTOR WATER/OIL : Not available | SOLUBILITY IN WATER (25°C) : 100% | |



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| ABSORPTION WAYS | | | CONTACT | | | | | | |
|-----------------|---|------------|---------|-----------|---|-----------|---|------|---|
| SKIN | ✓ | INHALATION | ✓ | INGESTION | ✓ | WITH SKIN | ✓ | EYES | ✓ |

EFFECTS OF EXPOSURE TO PRODUCT : Product can irritate mucus glands. High doses can provoke headaches, drowsiness, nausea, dizziness and fainting. Inhalation may aggravate cases of emphysema and bronchitis. Repeated contact with skin provokes irritations, dryness of the skin and cracking of the skin.**PREVENTIVE MEASURES****PROTECTIVE EQUIPMENT :** Gloves, security glasses and protective apron.

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GLOVES : Impervious

RESPIRATORY SYSTEM : Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations , use an approved air-purifying respirator. In misty atmospheres, use an approved mist respirator.

OCULAR INSTRUMENT : Chemical splash glasses and face shield. For misty operations, wear chemical goggles.

CLOTHING : Impervious apron

TECHNICAL CONTROL : At elevated temperatures, special ventilation may be required even of the flash point has not been exceeded. Flammable mists or aerosols can be generated below the flash point of high boiling liquids. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

PROCEDURE IN CASE OF LEAKS/SPILLS : Combustible liquid. Spill may contaminate water supplies or pollute public waters. Evacuate and limit access to area. Supply cleanup crew with proper protective equipment. Stop release and prevent flow to sewers or public waters. Notify fire and environmental authorities. Restrict water use for cleanup. This material can create a dangerous slipping hazard on any hard surface. Spread a granular cover (such as sand) or provide open grating on walkways. Impound and recover large land spill. Soak up small spills with inert solids and collect in suitable disposal containers. This material is water soluble and may float or sink. Diluted material may biodegrade. Contain and minimize dispersion; collect and contain in suitable disposal containers. Disperse remaining residue to reduce aquatic harm. Report as per regulatory requirements.

WASTE DISPOSAL : Contaminated product, soil, water is potentially combustible. Solids may be landfilled at permitted sites in compliance with federal, provincial, local solid waste regulations. Burn concentrated liquid waste. Avoid flameouts and assure emissions comply with regulations. Dilute aqueous wastes may be biodegradable. Avoid overloading and poisoning plant biomass. Effluent must comply with applicable regulations.

STORAGE AND HANDLING : This product will absorb water if exposed to air (hygroscopic). Store in tightly closed containers away from heat, moisture or strong oxidizing agents. Use dry nitrogen to low



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dew point air for tank padding. Do not heat higher than 10°C below flash point unless in a closed system away from air. Do not handle near heat, sparks or open flame. Handle empty containers with care as residue can burn if heated. Store in containers lined with stainless steel, aluminum, Plaste 3066 or stainless steel 316

FIRST AID

- SKIN :** Wash off in flowing water or shower. Wash clothing before re-use. See a doctor if irritation develops or persists.
- EYES :** Remove contact lenses. Wash with running water for 20 to 30 minutes; lift eyelids often. See a doctor if redness, pain or blinking develops or persists.
- INHALATION :** Remove to fresh air if effects occur. Give oxygen of artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
- INGESTION :** If a large quantity is swallowed, induce vomiting. Do not give by mouth to an unconscious person. Seek medical attention.

NOTES TO PHYSICIAN : No specific antidote. Supporting care, treatment based on judgement of the physician on response to reactions of the patient.

INFORMATION ON THE M.S.D.S. PREPARATION

PREPARED BY :
Hall Chem Mfg. Inc.

TELEPHONE : (450) 645-0296

REVISED – Dec.2007

NOTE :

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