

**MATERIAL SAFETY DATA SHEET**

**1. Product And Company Identification**

MSDS ID: MSDS531  
PRODUCT NAME: Prestone® De-Icer Washer Fluid with Dirt Blocker (low VOC)  
PRODUCT NUMBER: AS250P, AS250PB  
FORMULA NUMBER: 2275-55, 2327-1, 2429-86

**PRODUCT NOT FOR SALE IN CALIFORNIA**

MANUFACTURER: Honeywell Consumer Products Group  
39 Old Ridgebury Road  
Danbury, CT 06810-5109

CANADIAN OFFICE: Honeywell Consumer Products Group  
3333 Unity Drive  
Mississauga, Ontario L5L 3S6

**MEDICAL EMERGENCIES AND ALL OTHER INFORMATION PHONE NUMBER:**

(800)890-2075 (in the US)

(800)668-9349 (in Canada)

**TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):**

CHEMTREC 1-800-424-9300 (in the US)

CANUTEC (613)996-6666 (in Canada)

MSDS DATE OF PREPARATION/REVISION: 06/23/10

PRODUCT USE: Automobile windshield cleaner/deicer - consumer product

**2. Hazards Identification**

Clear yellow, liquid with an alcohol odor.

**EMERGENCY OVERVIEW**

Flammable liquid and Vapor! Eye irritant. Inhalation may cause headache, dizziness, drowsiness, nausea, visual impairment, narcosis and unconsciousness. Methyl Alcohol may be absorbed through the skin in harmful amounts. Poisonous if swallowed.

**3. Composition/Information On Ingredients**

Component	CAS No.	Amount
Methyl Alcohol (Methanol)	67-56-1	10-30
Non-hazardous Ingredients	Mixture	60-100
Silicone copolymer	Proprietary	<2

(See Section 8 for Exposure Limits)

**4. First Aid Measures**

**INHALATION:** Remove the victim to fresh air. If breathing has stopped administer artificial respiration. If breathing is difficult, have medical personnel administer oxygen. Get immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Immediately wash contacted area thoroughly with soap and water. If irritation persists, get medical attention.

**EYE CONTACT:** Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

INGESTION: Seek immediate medical attention. Immediately call local poison control center or go to an emergency department. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person.

NOTES TO PHYSICIAN: The combination of visual disturbances, metabolic acidosis and an osmol gap is evidence of methanol poisoning. Ethanol is antidotal and its early administration may block the formation of toxic metabolites of methanol. The objective is to rapidly achieve and maintain a blood ethanol level of approximately 100 mg/dl by giving a loading dose of ethanol followed by a maintenance dose. Intravenous administration of ethanol is the preferred route. Ethanol blood levels should be checked frequently. Hemodialysis may be required. Treat acidosis with intravenous sodium bicarbonate. 4-Methyl pyrazole (Fomepizole®), a potent inhibitor of alcohol dehydrogenase, has been used therapeutically to decrease the metabolic consequences of methanol poisoning. Fomepizole® is easier to use clinically than ethanol, does not cause CNS depression or hypoglycemia and requires less monitoring than ethanol. Folic acid may also be administered to enhance the metabolism of formic acid, the toxic metabolite of methanol.

Seek immediate consultation with a physician toxicologist or poison control center.

#### 5. Firefighting Measures

EXTINGUISHING MEDIA: Use water fog, carbon dioxide, alcohol foam or dry chemical. Cool fire exposed containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

UNUSUAL FIRE HAZARDS: Flammable liquid. Methanol-water mixtures will burn unless very dilute. Flame is invisible in daylight. Vapors are heavier than air and may flow along surfaces to distant ignition sources and flashback.

HAZARDOUS COMBUSTION PRODUCTS: Burning may produce carbon monoxide and carbon dioxide.

#### 6: Accidental Release Measures

Eliminate all ignition sources. Ventilate area. Wear appropriate protective clothing and equipment (See Section 8). Collect with absorbent material and place in a container suitable for flammable waste.

#### 7. Handling and Storage

DANGER: May be fatal or cause blindness if swallowed!

Do not swallow.

Avoid eye and skin contact.

Avoid breathing vapors or mists.

Use only with adequate ventilation.

Wash exposed skin thoroughly with soap and water after use.

Flammable liquid!

Keep away from heat, sparks, open flames and all other sources of ignition.

Do not smoke during use.

Store in a cool, well ventilated area.

NFPA CLASSIFICATION: II

**8. Exposure Controls / Personal Protection**

**EXPOSURE LIMITS**

CHEMICAL	EXPOSURE LIMIT
Methyl Alcohol (Methanol)	200 ppm TWA OSHA PEL 200 ppm TWA ACGIH TLV skin 250 ppm STEL ACGIH TLV
Non-hazardous Ingredients	None Established PEL/TLV
Silicone Copolymer	None Established PEL/TLV

VENTILATION: Use general ventilation or local exhaust as required to maintain exposures below the occupational exposure limits.

RESPIRATORY PROTECTION: For operations where the TLV is exceeded a NIOSH approved supplied air respirator or positive pressure self-contained breathing apparatus is recommended. Organic vapor cartridge respirators are not recommended for methanol vapor exposures. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

GLOVES: Chemical resistant gloves such as butyl rubber or Viton where contact is possible.

EYE PROTECTION: Splash-proof goggles.

OTHER PROTECTIVE EQUIPMENT/CLOTHING: Appropriate protective clothing as needed to minimize skin contact.

**9. Physical and Chemical Properties**

APPEARANCE AND ODOR: Clear, yellow liquid with alcohol odor. The reported mean odor threshold for methanol is 160 - 690 ppm.

pH: 5-8.5	SPECIFIC GRAVITY: 0.96-0.98
BOILING POINT: 185°F (85°C)	VAPOR PRESSURE: 96 mmHg @ 20°C
FREEZING POINT: <-1.3°F (<-18.5°C)	VAPOR DENSITY: >1
SOLUBILITY IN WATER: 100%	PERCENT VOLATILE: ~99%
VISCOSITY: Not determined	EVAPORATION RATE: Not determined
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not determined	
FLASH POINT: 101-103°F (38-39°C) Setaflash	AUTOIGNITION TEMPERATURE: Not Determined
FLAMMABILITY LIMITS: LEL: 6.0% (Methanol)	UEL: 36% (Methanol)

**10. Stability and Reactivity**

STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks, flames and all other sources of ignition.

INCOMPATIBILITY: Strong bases, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Will not occur.

**11. Toxicological Information**

**POTENTIAL HEALTH EFFECTS:**

**ACUTE HAZARDS:**

**INHALATION:** May cause irritation of the nose and throat. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, tingling, numbness and shooting pains in the hands and forearms, and visual disturbances.

**SKIN CONTACT:** Prolonged contact with the skin may cause redness and defatting of the skin and absorption of harmful amounts of methanol.

**EYE CONTACT:** Liquid, vapors or mist may cause discomfort in the eye with persistent conjunctivitis, seen as slight excess redness or conjunctiva. Serious corneal injury is not anticipated.

**INGESTION:** Contains methanol. May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, headache, malaise, blurring of vision, leg cramps, confusion, drunken behavior, convulsions and coma. Visual effects from methanol include blurred vision, double vision, changes in color perception, restriction of visual fields and complete blindness. Cardiac failure and pulmonary edema may develop.

With massive overdoses of methanol, liver, kidney and heart muscle injury have been described. There may be a delay of several hours between swallowing methanol and the onset of signs and symptoms. Ingestion of moderate quantities of methanol also produces metabolic acidosis. 60-200 ml of methanol is a fatal dose for most adults. Ingestion of as little as 10 ml may cause blindness.

**CHRONIC EFFECTS:** Prolonged or repeated inhalation exposure may produce signs of central nervous system involvement, including nausea, vomiting, headache, ringing in the ears, dizziness, vertigo, cloudy and double vision. Prolonged overexposure at levels of 800-1000 ppm may result and in severe eye damage. Prolonged or repeated skin contact may cause skin sensitization and an associated dermatitis in some individuals.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Due to its defatting properties, methanol may aggravate an existing skin condition, e.g., eczema. Due to its liver and kidney injuring potential, the product may exacerbate existing liver and/or kidney diseases.

**CARCINOGEN:** None of the components of these products is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH or OSHA.

**Acute Toxicity Values:**

Methanol: LD50 Oral Rat: 9100 mg/kg; LD50 Skin Rabbit: 15,940 mg/kg; LC50 Inhalation Rat: 145,000 ppm/1hr  
Silicone copolymer: LD50 Oral Rat: >5000 mg/kg; LD50 Skin Rabbit: >2000 mg/kg

**12. Ecological Information**

Methanol: TLM 96: >1000 ppm

**13. Disposal Considerations**

Recycle, incinerate, treat or landfill in accordance with all local, state/provincial and federal regulations.

**14. Transport Information**

**Consumer Commodity Status:** This product is a consumer product and inner packagings 5 L/1.3 gal capacity or smaller and a gross mass for the package not exceeding 30 kg/66 lbs meet the criteria for shipment as a limited quantity and consumer commodity for both ground and vessel shipment. Because the flashpoint exceeds 37.8°C (100°F) and the product does not meet the definition of any other hazard class and is not a hazardous substance, hazardous waste or marine pollutant, the combustible liquid (flammable liquid for Canada) exception has been taken for US and Canadian ground transportation. This product can be shipped by road and rail as a non-regulated shipment in non-bulk packaging (450 L/119 gal or less) using these exceptions. This exception does not apply to international vessel shipments under the IMDG Code so this product is regulated for shipment by that mode. The IMDG limited quantity provisions apply to shipments with inner packagings 5 L or smaller and gross mass for the package not exceeding 30 kg. Additionally consumer products are exempted from marking of the UN number on the packaging (see IMDG Code 3.4.7).

U.S. DOT HAZARD CLASSIFICATION (For Ground Shipments - Non-Bulk (containers with 119 gallons or less) Only)

PROPER SHIPPING NAME: Excepted From HazMat  
TECHNICAL NAME:  
UN NUMBER: None  
HAZARD CLASS/PACKING GROUP: Not Applicable  
LABELS REQUIRED: None

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

**IMDG CODE SHIPPING CLASSIFICATION**

Shipments with inner packagings 5 L or smaller and gross mass for the package not exceeding 30 kg can be shipped as a Limited Quantity (see above). This product is exempted from marking the UN number (see IMDG Code 3.4.7)

DESCRIPTION: UN1993, Flammable Liquid, n.o.s. (contains Methanol), 3, PG III, FP 38 C, Limited Quantities  
ID NUMBER: UN1993  
HAZARD CLASS: 3  
PACKING GROUP: III  
LABELS REQUIRED: None  
PLACARDS REQUIRED: LIMITED QUANTITIES Mark on Cargo Transport Containers

CANADIAN TDG CLASSIFICATION (For Ground Shipments Only)

PROPER SHIPPING NAME: Excepted from Regulation in small means of containment (Section 1.33)  
TECHNICAL NAME: None  
UN NUMBER: None  
HAZARD CLASS/PACKING GROUP: Not Applicable  
LABELS REQUIRED: None

IATA/ICAO SHIPPING CLASSIFICATION:  
These products are not suitable for shipment by air.

**15. Regulatory Information**

EPA SARA 311/312 HAZARD CLASSIFICATION: Acute health, chronic health, fire hazard

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Methanol	67-56-1	10-30%
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PROTECTION OF STRATOSPHERIC OZONE: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Methanol (30% maximum) of 5,000 lbs, is 16,600 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65: This product does not contain chemicals regulated under California Proposition 65.

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CALIFORNIA AIR RESOURCE BOARD (CARB) CONSUMER PRODUCT REGULATION: Product not for sale in California.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

CANADIAN WHMIS CLASSIFICATION: Class D - Division 2 - Subdivision B - (A toxic material causing other chronic effects), Class B - Division 3 (Combustible Liquid)



CANADIAN WHMIS SYMBOL:

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS): All of the ingredients are listed on the EINECS inventory.

KOREA: All of the ingredients of this product are listed on the Korean Existing Chemical List (KECL).

<b>16. Other Information</b>
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NFPA Rating: Fire: 2                      Health: 2                      Reactivity: 0

REVISION SUMMARY: Section 1: Added new formula number. Section 15: Added Korean chemical inventory status.

This MSDS is directed to professional users and bulk handlers of the product. Consumer products are labeled in accordance with Federal Hazardous Substances Act regulations.

While Prestone Products Corporation believes that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of tests conducted, the data are not to be taken as a warranty or representation for which Prestone Products Corporation assumes legal responsibility. They are offered for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

If more information is needed, please contact:

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