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Material Safety Data Sheet (MSDS)

Mac's Windshield De-Icer

MATERIAL SAFETY DATA SHEET
Effective Date: 1-1-03 Revision Date: none
Mac's Windshield De-Icer
Code: UNI Page: 1

Section 1 - Product and Company Identification

PRODUCT NAME: Mac's Windshield De-Icer

MANUFACTURER'S NAME: EMERGENCY TELEPHONE NUMBER
Unifide Ind. (800)424-9300
121 Highway 36
West Long Branch, NJ 07764 MISCELLANEOUS INFORMATION

MATERIAL SAFETY DATA SHEET
Effective Date: 1-1-03 Revision Date: none
Mac's Windshield De-Icer
Code: UNI Page: 2

Section 1 - Product and Company Identification - Continued

MATERIAL SAFETY DATA SHEET

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: HMIS CODES Health 3 7000 Flammability 3 Reactivity 0 PRODUCT NAME: NAPA Windshield De-Icer MANUFACTURED By EMERGENCY TELEPHONE NO. Unifide Industries, LLC Chemtrec 1-800-424-9300 121 Highway 36, West Long Branch, NJ 07764 DATE OF PREPARATION INFORMATION TELEPHONE NO. January 1, 2003 (732) 728-1700

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS & by WT CAS NO. INGREDIENT UNITS VAPOR PRESSURE

62 67-56-1 Methanol ACGIH TLV 200 ppm (skin) 92 mm ACGIH TLV 250 ppm (skin) STEL OSHA PEL 200 ppm (skin) OSHA PEL 250 ppm (skin) STEL 6 107-21-1 Ethylene Glycol. ACGIH TLV 50 ppm CEILING 0.12 mm OSHA PEL 50 ppm CEILING 3 124-38-9 Carbon Dioxide ACGIH TLV 5000 ppm OSHA PEL 5000 ppm

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. Alcohols and acetates can be absorbed through the skin. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment. EFFECTS OF OVEREXPOSURE Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. SIGNS AND SYMPTOMS OF OVEREXPOSURE Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None generally recognized. CANCER INFORMATION For complete discussion of toxicology data refer to Section 11. Continued on page 2
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Section 4 -- FIRST AID MEASURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet. If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention. If SWALLOWED: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL 68 F TCC 3.2 36.5 EXTINGUISHING MEDIA Carbon Dioxide, Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. SPECIAL FIRE FIGHTING PROCEDURES Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

MATERIAL SAFETY DATA SHEET

Effective Date: 1-1-03 Revision Date: none

Mac's Windshield De-Icer

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Section 1 - Product and Company Identification - Continued

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources of ignition. Ventilate and remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

DOL STORAGE CATEGORY 1A PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Keep away from heat, sparks, and open flame. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Continued on page 3

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VENTILATION Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.106. RESPIRATORY PROTECTION If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2. PROTECTIVE GLOVES None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves. EYE PROTECTION Wear safety spectacles with unperforated sideshields. OTHER PRECAUTIONS Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT 7.16 lb/gal 858 g/l SPECIFIC GRAVITY 0.86 BOILING POINT <0 - 388 F <-18 - 197 C MELTING POINT Not Available VOLATILE VOLUME 99 % EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air SOLUBILITY IN WATER N.A. VOLATILE ORGANIC COMPOUNDS (VOC Theoretical) Volatile Weight 68.05 % Less Federally Exempt Solvents HMIS -- 3 3 0

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY None

known. HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon Monoxide HAZARDOUS POLYMERIZATION Will not occur

 Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Ethylene Glycol is considered an animal teratogen. It has been shown to cause birth defects in rats and mice at high doses when given in drinking water or by gavage. There is no evidence to indicate it causes

 MATERIAL SAFETY DATA SHEET

Effective Date: 1-1-03 Revision Date: none
 Mac's Windshield De-Icer
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Section 1 - Product and Company Identification - Continued

birth defects in humans. Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Continued on page 4
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TOXICOLOGY DATA CAS No. Ingredient Name

67-56-1 Methanol LC50 RAT 4HR 64000 ppm LD50 RAT 5630 mg/kg 107-21-1
 Ethylene Glycol. LC50 RAT 4HR Not Established LD50 RAT 4700 mg/kg 124-38-9
 Carbon Dioxide LC50 RAT 4HR Not Established LD50 RAT Not Established

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION CAS No. CHEMICAL/COMPOUND & by WT % Element

67-56-1 Methanol 62 107-21-1 Ethylene Glycol. 6 TSCA CERTIFICATION All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CFR and the MSDS contains all of the information required by the CFR.
 99023

END

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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