

Part: 7000 Line: MAC Desc: DE-ICER

=====1  
MATERIAL SAFETY DATA SHEET1

Effective Date: 1-1-03

Revision Date: none

Mac's Windshield De-Icer1

Code: UNI

Page: 1

=====1  
Section 1 - Product and Company Identification11  
PRODUCT NAME: Mac's Windshield De-Icer11  
MANUFACTURER'S NAME:EMERGENCY TELEPHONE NUMBER  
(800)424-93001

Unifide Ind.

121 Highway 361

West Long Branch, NJ 07764

MISCELLANEOUS INFORMATION1

1

1

1

=====1  
MATERIAL SAFETY DATA SHEET1

Effective Date: 1-1-03

Revision Date: none

Mac's Windshield De-Icer1

Code: UNI

Page: 2

=====1  
Section 1 - Product and Company Identification - Continued1

1

MATERIAL SAFETY DATA SHEET1

=====1  
Section 1 -- PRODUCT AND COMPANY IDENTIFICATION1-----1  
PRODUCT NUMBER: HMIS CODES Health 3 7000 Flammability 3 Reactivity 0 PRODUCT  
NAME: NAPA Windshield De-Icer MANUFACTURED By EMERGENCY TELEPHONE NO.1  
Unifide Industries, LLC Chemtrec 1-800-424-9300 121 Highway 36, West Long1  
Branch, NJ 07764 DATE OF PREPARATION INFORMATION TELEPHONE NO. January 1,1  
2003 (732) 728-17001=====1  
Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS % by WT CAS No.1  
INGREDIENT UNITS VAPOR PRESSURE1-----1  
62 67-56-1 Methanol ACGIH TLV 200 ppm (skin) 92 mm ACGIH TLV 250 ppm (skin)1  
STEL OSHA PEL 200 ppm (skin) OSHA PEL 250 ppm (skin) STEL 6 107-21-11  
Ethylene Glycol. ACGIH TLV 50 ppm CEILING 0.12 mm OSHA PEL 50 ppm CEILING 31  
124-38-9 Carbon Dioxide ACGIH TLV 5000 ppm OSHA PEL 5000 ppm1=====1  
Section 3 -- HAZARDS IDENTIFICATION1-----1  
ROUTES OF EXPOSURE Exposure may be by INHALATION and/or SKIN or EYE contact,  
depending on conditions of use. Alcohols and acetates can be absorbed1  
through the skin. To minimize exposure, follow recommendations for proper1  
use, ventilation, and personal protective equipment. EFFECTS OF OVEREXPOSURE  
Irritation of eyes, skin and respiratory system. May cause nervous system1  
depression. Extreme overexposure may result in unconsciousness and possibly1  
death. SIGNS AND SYMPTOMS OF OVEREXPOSURE Headache, dizziness, nausea, and1  
loss of coordination are indications of excessive exposure to vapors or1  
spray mists. Redness and itching or burning sensation may indicate eye or1  
excessive skin exposure. MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE None1  
generally recognized. CANCER INFORMATION For complete discussion of1  
toxicology data refer to Section 11. Continued on page 21  
99023 page 21=====1  
Section 4 -- FIRST AID MEASURES1

-----1

Part: 7000 Line: MAC Desc: DE-ICER

and quiet. If on SKIN: Wash affected area thoroughly with soap and water.1  
Remove contaminated clothing and laundry before re-use. If in EYES: Flush1  
eyes with large amounts of water for 15 minutes. Get medical attention. If1  
SWALLOWED: Do not induce vomiting. Get medical attention immediately.1

=====1

## Section 5 -- FIRE FIGHTING MEASURES1

-----1

FLASH POINT LEL UEL 68 F TCC 3.2 36.5 EXTINGUISHING MEDIA Carbon Dioxide,1  
Dry Chemical, Alcohol Foam UNUSUAL FIRE AND EXPLOSION HAZARDS Closed1  
containers may explode (due to the build-up of pressure) when exposed to1  
extreme heat. SPECIAL FIRE FIGHTING PROCEDURES Full protective equipment1  
including self-contained breathing apparatus should be used. Water spray may  
be ineffective. If water is used, fog nozzles are preferable. Water may be1  
used to cool closed containers to prevent pressure build-up and possible1  
autoignition or explosion when exposed to extreme heat.1

=====1

## Section 6 -- ACCIDENTAL RELEASE MEASURES1

-----1

1

=====

## MATERIAL SAFETY DATA SHEET1

Effective Date: 1-1-03

Revision Date: none

Mac's Windshield De-Icer1

Code: UNI

Page: 3

=====

## Section 1 - Product and Company Identification - Continued1

1

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all sources  
of ignition. Ventilate and remove with inert absorbent.1

=====1

## Section 7 -- HANDLING AND STORAGE1

-----1

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 are1  
gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot1  
lights, and heaters - Turn off stoves, electric tools and appliances, and1  
any other sources of ignition. Consult NFPA Code. Use approved Bonding and1  
Grounding procedures. Contents under pressure. Do not puncture, incinerate,1  
or expose to temperature above 120F. Heat from sunlight, radiators, stoves,1  
hot water, and other heat sources could cause container to burst. Do not1  
take internally. Keep out of the reach of children.1

=====1

## Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION1

-----1

PRECAUTIONS TO BE TAKEN IN USE Use only with adequate ventilation. Avoid1  
breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands  
after using. Continued on page 31

99023 page 31

=====1

VENTILATION Local exhaust preferable. General exhaust acceptable if the1  
exposure to materials in Section 2 is maintained below applicable exposure1  
limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108. RESPIRATORY1  
PROTECTION If personal exposure cannot be controlled below applicable limits  
by ventilation, wear a properly fitted organic vapor/particulate respirator1  
approved by NIOSH/MSHA for protection against materials in Section 2.1  
PROTECTIVE GLOVES None required for normal application of aerosol products1  
where minimal skin contact is expected. For long or repeated contact, wear1  
chemical resistant gloves. EYE PROTECTION Wear safety spectacles with1  
unperforated sideshields. OTHER PRECAUTIONS Intentional misuse by1  
deliberately concentrating and inhaling the contents can be harmful or1  
fatal.1

Part: 7000 Line: MAC Desc: DE-ICER

## Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES1

PRODUCT WEIGHT 7.16 lb/gal 858 g/l SPECIFIC GRAVITY 0.86 BOILING POINT <0 -1  
388 F <-18 - 197 C MELTING POINT Not Available VOLATILE VOLUME 99 %1  
EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air SOLUBILITY  
IN WATER N.A. VOLATILE ORGANIC COMPOUNDS (VOC Theoretical) Volatile Weight1  
68.05 % Less Federally Exempt Solvents HMIS -- 3 3 01

## Section 10 -- STABILITY AND REACTIVITY1

STABILITY -- Stable CONDITIONS TO AVOID None known. INCOMPATIBILITY None1  
known. HAZARDOUS DECOMPOSITION PRODUCTS By fire: Carbon Dioxide, Carbon1  
Monoxide HAZARDOUS POLYMERIZATION Will not occur1

## Section 11 -- TOXICOLOGICAL INFORMATION1

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 given1  
in drinking water or by gavage. There is no evidence to indicate it causes1

## MATERIAL SAFETY DATA SHEET1

Effective Date: 1-1-03

Revision Date: none

Mac's Windshield De-Icer1

Code: UNI

Page: 4

## Section 1 - Product and Company Identification - Continued1

1 birth defects in humans. Prolonged overexposure to solvent ingredients in1  
Section 2 may cause adverse effects to the liver and urinary systems.1  
Reports have associated repeated and prolonged overexposure to solvents with  
permanent brain and nervous system damage. Continued on page 41  
99023 page 41

## TOXICOLOGY DATA CAS No. Ingredient Name1

67-56-1 Methanol LC50 RAT 4HR 64000 ppm LD50 RAT 5630 mg/kg 107-21-11  
Ethylene Glycol. LC50 RAT 4HR Not Established LD50 RAT 4700 mg/kg 124-38-91  
Carbon Dioxide LC50 RAT 4HR Not Established LD50 RAT Not Established1

## Section 12 -- ECOLOGICAL INFORMATION1

ECOTOXICOLOGICAL INFORMATION No data available.1

## Section 13 -- DISPOSAL CONSIDERATIONS1

WASTE DISPOSAL METHOD Waste from this product may be hazardous as defined1  
under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste1  
must be tested for ignitability to determine the applicable EPA hazardous1  
waste numbers. Do not incinerate. Depressurize container. Dispose of in1  
accordance with Federal, State, and Local regulations regarding pollution.1

## Section 14 -- TRANSPORT INFORMATION1

No data available.1

## Section 15 -- REGULATORY INFORMATION1

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION CAS No. CHEMICAL/COMPOUND %1  
by WT % Element1

Part: 7000 Line: MAC Desc: DE-ICER

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.1

=====1  
Section 16 -- OTHER INFORMATION1

-----1  
This product has been classified in accordance with the hazard criteria of  
the CPR and the MSDS contains all of the information required by the CPR.1  
990231

=====1  
END1

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.1

\*\*\* End of Report \*\*\*