MATERIAL SAFETY DATA SHEET

TRADE NAME: D.F.C.

COMPLETE WITH USDL SAFETY AND HEALTH REGULATIONS, (29 CFR 1910.1200)

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MANUFACTURER AND PRODUCT IDENTIFICATION

DATE: 11/29/04 TRADE NAME: D.F.C.

GENERAL OR GENERIC ID: WINDSHIELD WASHER/DEICER MANUFACTURED FOR: ATLANTIC SOLUTIONS INC. 125 N. CHATHAM PKWY.

CHAPEL HILL, NC 27517 (800) 476-0895 (919) 933-4250

(800) 470-0093 (919)

24 HR. INFOTRAC NUMBER: (800) 535-5053

HMIS RATING: HEALTH (1) FLAMMABILITY (3) REACTIVITY (0) PROTECTION (B) 4 = EXTREME, 3 = HIGH, 2 = MODERATE, 1 = SLIGHT, 0 = INSIGNIFICANT * = CHRONIC HAZARD

II HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS ACGIH TLV/

CHEMICAL IDENTITY; CAS# PPM MG/M3 OSHA PEL % OPTIONAL

COMMON NAMES

ISOPROPANOL 67-63-0 400 PPM 400 PPM < 35

III PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING RANGE: N/D SPECIFIC GRAVITY (WATER = 1): .948

VAPOR PRESSURE (mm hg): N/A MELTING POINT: N/A

VAPOR DENSITY, (AIR = 1): > 1 EVAPORATION RATE (BUTYLACETATE = 1): > 1

SOLUBILITY IN WATER: COMPLETE PERCENT VOLATILE: <35

pH: 6

APPEARANCE AND ODOR: DARK BLUE LIQUID, ALCOHOL ODOR

IV FIRE AND EXPLOSION DATA

LEL: N/A UEL: N/A

FLASH POINT, (METHOD USED): <100 F

EXTINGUISHING MEDIA: WATER: DRY CHEMICAL; CHEMICAL FOAM, CO2

FIRE FIGHTING PROCEDURES: KEEP CONTAINERS COOL WITH WATER SPRAY TO PREVENT DRUM RUPTURE DUE TO STEAM BUILDUP; FLOOR WILL BECOME SLIPPERY IF MATERIAL IS RELEASED. UNUSUAL FIRE AND EXPLOSION HAZARDS: CAN RELEASE VAPORS OF FLAMMABLE MIXTURES AT OR

ABOVE

ABOVE

THE FLASHPOINT TEMPERATURE

V REACTIVITY DATA

STABILITY DATA: STABLE CONDITIONS TO AVOID: EXTREME TEMPERATURES AND

SPARKS

OR OPEN FLAME

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG ACIDS / STRONG OXIDIZERS

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: THERMAL DECOMPOSITION MAY YIELD CO2, CO.

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HEALTH HAZARD DATA VI

ROUTES OF ENTRY-SIGNS AND SYMPTOMS:

SLIGHT IRRITATION OF RESPIRATORY TRACT, DIZZINESS, HEADACHES, CNS EFFECTS INHALATION:

PROLONGED EXPOSURE MAY CAUSE MILD SKIN IRRITATION. SKIN:

CONTACT WITH EYES WILL CAUSE IRRITATION EYES:

IRRITATION TO THE GASTROINTESTINAL TRACT, ABDOMINALPAIN AND VOMITING, CNS INGESTION:

DEPRESSION.LOW BLOOD PRESSURE, RAPID HEART BEAT AND LIVER DAMAGE

OSHA REGULATED: NO IARC MONOGRAPHS: NO CARCINOGENICITY: NTP: NO MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PREEXISTING SKIN, EYE OR RESPIRATORY DISORDERS MAY BECOME AGGRAVATED THROUGH PROLONGED EXPOSURE.

EMERGENCY FIRST AID PROCEDURES

REMOVE TO FRESH AIR; IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. INHALATION:

GIVE TWO GLASSES OF WATER; DO NOT INDUCE VOMITING; SEEK MEDICAL ATTENTION. INGESTION: EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES; IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING; WASH AREA WITH WATER; IF IRRITATION PERSISTS

SEEK MEDICAL ATTENTION.

PRECAUTIONS FOR DISPOSAL, SAFE HANDLING, AND USE VII

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: CONTAIN SPILL. VENTILATE AREA AND REMOVE ALL SOURCES OF IGNITION. SOAK UP WITH APPROVED ABSORBENT. SHOVEL PRODUCT INTO APPROVED CONTAINER FOR DISPOSAL. WASH AREA WITH PLENTY OF WATER.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULA-

TIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE AWAY FROM HEAT AND OPEN FLAME

KEEP CONTAINER CLOSED WHEN NOT IN USE.

PROTECT CONTAINERS FROM ABUSE AND EXTREME TEMPERATURES. KEEP THIS AND OTHER CHEMICALS OUT OF REACH OF CHILDREN. AVOID

BODY CONTACT WITH THIS PRODUCT AND ALL CHEMICALS

VIII CONTROL MEASURES

RESPIRATORY PROTECTION: ONLY IF EXPOSURE LIMITS ARE EXCEEDED, THEN USE A NIOSH APPROVED

RESPIRATOR

VENTILATION:

LOCAL

PROTECTIVE GLOVES:

NEOPRENE OR RUBBER GLOVES WHEN HANDLING CONCENTRATE

EYE PROTECTION:

CHEMICAL GOGGLES WITH SIDE SHIELDS. CONCENTRATE CAN

CAUSE IRRITATION.

OTHER PROTECTIVE EQUIP.: SAFETY EYEBATH NEARBY.

WORK/HYGIENIC PRACTICES: EXHIBIT NORMAL SAFE WORKPLACE HABITS.

TRADE NAME: D.F.C.

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IX TRANSPORTATION

DOT SHIPPING NAME: ISOPROPANOL, 3, UN1219, III

X SPECIAL PRECAUTIONS / OTHER COMMENTS

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