

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION # : 314-647-1888
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I-PRODUCT IDENTIFICATION

CHEM THAW

PRODUCT CODE: #044A

DOT HAZARD CODE: ORM-D

CHEMICAL FORMULATION: WINDSHIELD DEICER - AEROSOL

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 4 FLAMMABILITY: 4 REACTIVITY: 0

HAZARD RATING: 4- Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
METHANOL*	67-56-1	200 ppm	200 ppm		80 to 90
ETHYLENE GLYCOL*	107-21-1	NOT EST.	50 ppm		3 to 5

* SARA 313 INFORMATION: SUBJECT TO THE REPORTING AND SUPPLIER NOTIFICATION OF SARA 313.

* RQ #1 5000 IBS.-#2 N/A

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - PHYSICAL DATA

BOILING POINT (°C): N/A	MELTING POINT:
VAPOR PRESSURE (psig@25C) 120 psig	SPECIFIC GRAVITY (H ₂ O=1)(@25C.): 0.84
VAPOR DENSITY (AIR = 1): >1	VOC CONTENT (% by weight):
SOLUBILITY IN WATER: SOLUBLE	EVAPORATION RATE (Butyl acetate=1): <1
	Ph(@25C): N/A
APPEARANCE AND ODOR: WATER WHITE - ALCOHOL ODOR	

IV - FIRE AND EXPLOSION HAZARD

FLAME PROJECTION: >18"

FLASH POINT(TCC): N/A

(TEST METHOD):

FLAMMABLE LIMITS % BY VOLUME: NOT ESTABLISHED

UPPER: N/E

LOWER: N/E

EXTINGUISHING MEDIA: CO₂, STANDARD FOAM, DRY CHEMICAL, HALON.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARD: EXPOSURE TO TEMPERATURES OVER 120 DEGREES F. MAY CAUSE BURSTING OR VENTING. HEAT OR FIRE MAY CAUSE HAZARDOUS FUMES: CARBON MONOXIDE

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	OXIDIZING MATERIALS
CONDITIONS TO AVOID:	AVOID OXIDIZING MATERIALS
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	OPEN FLAMES MAY PRODUCE CARBON MONOXIDE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	SOURCES OF HEAT

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VI - HEALTH AND HAZARD DATA

GENERAL: TOXICITY INFORMATION IS NOT AVAILABLE FOR THESE FINISHED PRODUCTS. THIS HEALTH HAZARD ASSESSMENT IS BASED ON INFORMATION AVAILABLE FOR THE COMPONENTS IN THE FINISHED PRODUCT

ROUTES OF ENTRY: INHALATION? YES SKIN? YES INGESTION? YES EYES? YES

CARCINOGENICITY-NTP & IARC PROGRAM: NOT CONSIDERED A CARCINOGEN

OSHA & ACGIH REGULATED: NOT REGULATED

EFFECTS OF OVEREXPOSURE

IF IN EYES: FATAL OR CAUSES BLINDNESS

IF ON SKIN: ITCHING, DRYNESS, REDNESS, OR IRRITATION

IF SWALLOWED: FATAL OR BLINDNESS. CANNOT BE MADE NON-POISONOUS

IF INHALED: NAUSEA, OR DIZZINESS

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: SKIN SENSITIVITY, CHEMICAL ALLERGIES.

EMERGENCY AND FIRST AID PROCEDURES

IF IN EYES: FLUSH WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

IF ON SKIN: WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

IF SWALLOWED: INDUCE VOMITTING. SEEK MEDICAL ATTENTION. IPECAC(AVAILABLE AT YOUR PHARMACY), FOLLOWED BY 2 OR MORE GLASSES OF WATER. ALTERNATIVELY, GIVE LARGE AMOUNTS OF WATER OR MILK AND ENCOURAGE VOMITTING BY TICKLING BACK OF THROAT WITH FINGERS. CALL PHYSICIAN IMMEDIATELY.

IF INHALED: REMOVE TO FRESH AIR.

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. DIKE AREA IF POSSIBLE FOR MATERIAL RECOVERY. SMALL QUANTITIES MAY BE ABSORBED WITH ABSORBENT MATERIALS

WASTE DISPOSAL METHOD: DISPOSE OF IN A MANNER APPROVED BY LOCAL, STATE, AND FEDERAL REGULATIONS AS WELL AS EPA STANDARDS

VIII - SPECIAL PROTECTION INFORMATION

VENTILATION RECOMMENDED: GENERAL VENTILATION RECOMMENDED TO MAINTAIN THE LEVEL OF THE HAZARDOUS INGREDIENTS TO LESS THAN HALF OF THE TVL.

RESPIRATORY PROTECTION: NOT REQUIRED

PROTECTIVE GLOVES: RUBBER GLOVES. FOR SHORT USAGE NON REQUIRED.

EYE PROTECTION: SAFETY GOGGLES. FOR SHORT USAGE NONE REQUIRED.

OTHER PROTECTIVE EQUIPMENT: NONE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: DO NOT STORE WHERE TEMPERATURES EXCEED 120 DEGREES FAHRENHEIT.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

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