

MATERIAL SAFETY DATA SHEET

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

MOIST AWAY

PRODUCT CODE: #160

CHEMICAL FORMULATION: METAL PROTECTOR

NFPA HAZARD IDENTIFICATION SYSTEM:

HEALTH: 2

FLAMMABILITY: 2

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 No.	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
METHYLENE CHLORIDE*	75-09-2	500ppm	50ppm		80-90%
ETHYLENE GLYCOL MONOBUTYL ETHER*	111-76-2	50ppm	25ppm		2-5%
CARBON DIOXIDE	124-38-9	N/A	5000ppm		

*SARA 313 Information subject to the reporting and supplier notification SARA 313

* RQ #1 1000 lbs. - #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 (°f): N/A	MELTING POINT:
VAPOR PRESSURE (psig @ 25C): 80 psig	SPECIFIC GRAVITY (H20=1)(@ 25C): 1.26
VAPOR DENSITY (AIR=1) >1	EVAPORATION RATE (Butyl Acetate=1): <1
SOLUBILITY IN WATER: INSOLUBLE	pH(@ 25C): N/A
APPEARANCE AND ODOR: YELLOW-SWEET ODOR	

IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (°F): N/A

(TEST METHOD):

FLAMMABLE LIMITS: N/E

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, PHOSGENE, CHLORINE, AND HYDROGEN CHLORIDE

V - REACTIVITY DATA

STABILITY:	STABLE
INCOMPATIBILITY:	OXIDIZING MATERIALS
MATERIALS TO AVOID:	POSSIBLY SODIUM, POTASSIUM, AND MAGNESIUM
HAZARDOUS DECOMPOSITION OR BYPRODUCTS:	OPEN FLAMES CAN CAUSE THERMAL DEGRADATION WITH THE EVOLUTION OF HYDROGEN CHLORIDE, PHOSGENE, AND CHLORINE
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.

THRESHOLD LIMIT VALUE: N/E

OSHA & ACGIH: N/R

CARCINOGENICITY: OVEREXPOSURE TO METHYLENE CHLORIDE CAN RAISE THE LEVEL OF CARBON MONOXIDE IN THE BLOOD CAUSING CARDIOVASCULAR STRESS. METHYLENE CHLORIDE IS LISTED AS A POTENTIAL CARCINOGEN (2B) BY IARC. RESULTS OF LABORATORY ANIMAL TESTS SHOW THAT MICE EXPOSED TO 1500 ppm AND HIGHER, BUT NOT IN HAMSTERS. IT INCREASED THE RATE OF SPONTANEOUSLY OCCURRING MALIGNANT TUMORS IN THE B6C3F1 MOUSE. EPIDEMIOLOGY STUDIES FAILED TO SHOW A TUMORIGENIC RESPONSE IN PLANT WORKERS. METHYLENE CHLORIDE IS NOT BELIEVED TO POSE A MEASURABLE CANCER RISK TO MAN WHEN HANDLES AS A LOW DEGREE OF MATERNAL AND EMBRYOTOXICITY AT 4500 ppm, NO TERATOLOGICAL EFFECTS AND NO EFFECTS ON REPRODUCTION AT CONCENTRATIONS OF 4500 AND 1225 ppm.

CHRONIC EFFECTS: UNKNOWN

OVEREXPOSURE TO METHYLENE CHLORIDE HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS; LIVER ABNORMALITIES, LUNG DAMAGE.

SYMPTOMS OF EXPOSURE

IF IN EYES: MODERATE TO SEVERE IRRITATION

IF ON SKIN: IRRITATION DUE TO DEFATTING OF TISSUE

IF INGESTED: NAUSEA, HEADACHE, VOMITING

IF INHALED: NAUSEA, DIZZINESS, COORDINATION IMPAIRMENT ON LONG EXPOSURE

MEDICAL COND. AGGRAVATED BY EXP: SKIN SENSITIVITY, CHEMICAL ALLERGIES

PRIMARY ROUTES OF ENTRY EYES, SKIN, INGESTION, AND INHALATION

EMERGENCY FIRST AID

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION

IF ON SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING

IF INGESTED: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION

IF INHALED: REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION

VII - SPILL AND LEAK PROTECTION

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: SMALL SPILLS: MOP UP, SOAK UP IMMEDIATELY REMOVE TO OUT OF DOORS. LARGE SPILLS: EVACUATE AREA. CONTAIN LIQUID; TRANSFER TO CLOSED METAL CONTAINERS. KEEP OUT OF WATER SUPPLY

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

RESPIRATORY PROTECTION: N/R

PROTECTIVE GLOVES: RUBBER GLOVES. FOR SHORT USAGE NONE 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.

WORK/HYGIENIC PRACTICES:

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