

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

RETARDER

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PRODUCT NAME: RETARDER  
 PRODUCT CODE: T-22

HMS CODES: H F R P  
 2 2 0 B

## ===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: CUDNER & O'CONNOR CO.  
 ADDRESS : 4035 W. Kinzie Street  
 CITY/STATE : CHICAGO, IL  
 ZIPCODE : 60624  
 EMERGENCY PHONE : (800) 535-5053      DATE PRINTED : 09/10/03  
 INFORMATION PHONE : (773) 826-0200      NAME OF PREPARER : Cudner & O'Connor

## ===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
*! DIETHYLENE GLYCOL MONOBUTYL ETHER OSHA: N/E    ACGIH N/E	112-34-5	.02    68F	100.00

\* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

! Indicates toxic chemical(s) subject to the reporting requirements of section HAPS REPORTING

WARNING: DETECTABLE AMOUNTS OF A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM MAY BE PRESENT IN THIS PRODUCT.

## ===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 442F      SPECIFIC GRAVITY (H2O=1): 0.95  
 VOLATILE WEIGHT: 100.00%      VOLATILE VOLUME: 100.00%  
 VAPOR DENSITY: HEAVIER THAN AIR      EVAPORATION RATE: SLOWER THAN ETHER  
 MATERIAL V.O.C.: 7.89 lb/gal      SOLUBILITY IN WATER: Non Soluble  
 APPEARANCE AND ODOR: Characteristic solvent odor

## ===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 212F      METHOD USED: SETA  
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: .9      UPPER: 24.6

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG, OTHER

SPECIAL FIREFIGHTING PROCEDURES:  
 Self-contained breathing apparatus (SCBA) should be worn to avoid inhalation of concentrated vapors. Water should not be used except as fog to keep nearby containers cool. Fumes released on burning may be toxic and dangerous.

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
 Handle as flammable liquid. Vapors form an explosive mixture in air between the upper and lower explosive limits which can be ignited by many sources such as pilot lights, open flames, electrical motors and switches.

## ===== SECTION V - REACTIVITY DATA =====

STABILITY: STABLE

CONDITIONS TO AVOID:  
 Excessive heat, poor ventilation, corrosive atmospheres, excessive aging,

ignition sources, sparks and open flame.

**INCOMPATIBILITY (MATERIALS TO AVOID):**

Alkaline materials, strong acids and oxidizing materials.

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**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

Carbon monoxide, carbon dioxide, oxides of nitrogen, and possibly acrolein.

**HAZARDOUS POLYMERIZATION:** Not anticipated during normal printing and storage conditions.

===== SECTION VI - HEALTH HAZARD DATA =====

**INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Inhalation: Dizziness, breathing difficulty, headaches & loss of coordination.

**SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Eye contact: Severe irritation, tearing, redness and blurred vision.

**SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Skin contact: Can dry and defat skin causing cracks, irritation, and dermatitis.

**INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

Ingestion: Can cause gastrointestinal irritation, vomiting, nausea, and diarrhea. Aspiration of material into lungs may cause chemical pneumonitis which can be fatal.

**HEALTH HAZARDS (ACUTE AND CHRONIC):**

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. If lead compounds and inorganic lead are present it is classified as a (GROUP 2B) carcinogen by IARC. Repeated and prolonged overexposure to lead by ingestion may cause nausea, digestive disorders, abdominal cramps and insomnia as well as blood, nervous, urinary and birth defects. Lead exposure is not expected when using this product as intended. Chromium and certain Chromium compounds are included in the NTP and IARC list of carcinogens.

**CARCINOGENICITY:** NTP CARCINOGEN: No    IARC MONOGRAPHS: No    OSHA REGULATED: No  
No Information Available.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

Pregnant women and persons with pre-existing health disorders should consult their physician before using this product. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects.

**EMERGENCY AND FIRST AID PROCEDURES:**

Inhalation overexposure: Move person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention. Eye contact: Flush with large quantities of water for 15 minutes. Skin contact: Wash thoroughly with soap and water and see a doctor. Ingestion: Do not induce vomiting. Can cause chemical pneumonitis and pulmonary edema. Contact physician immediately.

===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Remove all sources of ignition. Ventilate area and avoid breathing vapor. Contain release and remove with inert absorbent. Use non-sparking tools to place material in appropriate container for disposal.

## WASTE DISPOSAL METHOD:

Dispose of in accordance with local, county, state, provincial and federal regulations. Emptied containers may retain hazardous properties. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

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Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

## OTHER PRECAUTIONS:

Smoking in areas where this material is used should be strictly prohibited. Tools used with this material should be made from aluminum, brass or copper. Plastic utensils should not be used. NOTE: This information is accurate to the best knowledge of Cudner & O'Connor Co., but is furnished without any expressed or implied warranties.

## ===== SECTION VIII - CONTROL MEASURES =====

## RESPIRATORY PROTECTION:

When spraying this material use a NIOSH approved cartridge respirator or gasmask suitable to keep airborne mists and vapor concentrations below the timeweighted threshold limit values. When used in poorly ventilated and confined spaces, use an appropriate half mask or full face NIOSH approved respirator.

## VENTILATION:

General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment must be explosion proof.

## PROTECTIVE GLOVES:

Use impermeable chemical handling gloves for skin protection.

## EYE PROTECTION:

Use chemical safety glasses, goggles, and faceshields for eye protection.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Use impermeable aprons and protective clothing whenever possible to prevent skin contact.

## WORK/HYGIENIC PRACTICES:

Wash with soap and water before eating, smoking or using toilet facilities. Separately wash or discard clothing and footwear before reuse. Never try to remove ink from the skin by using solvent or thinner. Remove contaminated clothing to prevent prolonged contact.

## ===== SECTION IX - DISCLAIMER =====

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any federal, state or local laws.

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