

MATERIAL SAFETY DATA SHEET

OSHA-MEETS 29 CFR 191.1200 STANDARDS

HMIS HAZARD RATINGS



HEALTH	2	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	2	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

HAZARD CLASS / DIVISION:	None	REF:	Not applicable
IDENTIFICATION NUMBER:	None	LABEL:	NONE REQUIRED

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) Shroud Herbicide		Page 1 of 2
MANUFACTURER'S NAME Cedar Chemical Corporation	EMERGENCY TELEPHONE NUMBER CHEMTREC (800) 424-9300	
ADDRESS (NUMBER, STREET, P.O. BOX) 5100 Poplar Avenue, Suite 2414	TELEPHONE NUMBER FOR INFORMATION (901) 685-5348 (870) 572-3701	
(CITY, STATE, AND ZIP CODE) Memphis, Tennessee 38137	DATE PREPARED: February 6, 2001 SUPERSEDES: None	

SECTION 2 - COMPOSITIONAL INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (OPTIONAL)	ACGIH PPM	TWA MG/M ³	OSHA PPM	CEDAR MG/M ³	SARA TITLE III	RQ LBS
2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide (Alachlor)	15972-60-8	45.1				0.11	Yes	
Xylene (mixed)	1330-20-7		100		100		Yes	
1,2,4-trimethylbenzene	95-63-6		25				Yes	
Cumene	98-82-8		50		50		Yes	

(a) A "YES" in the SARA TITLE III column indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. * Effective 1996.

(b) Indicates an employee's skin exposure shall be prevented or reduced to the extent necessary in the circumstances through the use of gloves, coveralls, goggles, or other appropriate equipment.

(c) The Workplace Hazardous Materials Information System (WHMIS), Canada's version of the Hazard Communication, has determined this product must be disclosed as a hazardous ingredient to the extent described in the regulations.

(d) Indicates the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) has notification requirements for releases or spills to the environment of the Reportable Quantity (RQ) or greater amounts according to 40 CFR 302.

SECTION 3 - HEALTH HAZARD DATA

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: Vapor or mist may irritate the respiratory tract. Prolonged/excessive exposure may result in CNS depression.	Move subject to fresh air. Administer artificial respiration if breathing has stopped. Consult a physician.
SKIN: May be irritating, causing redness and dry skin. Repeated or prolonged exposure may sensitize or cause an allergic skin reaction in susceptible individuals.	Remove contaminated clothing; wash affected area with soap and water. Launder contaminated clothing before reuse. If irritation persists, seek medical attention.
EYES: May cause eye irritation.	Flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.
INGESTION: Due to low toxicity no significant adverse effects are expected if small amounts are swallowed. Contains hydrocarbons that may cause CNS depression, headache, fatigue, dizziness, or unconsciousness if extreme exposure.	Call physician or Poison Control Center immediately. Do not induce vomiting unless directed by qualified medical personnel. If possible, dilute by giving 2 glasses of water to drink. Never give anything by mouth to an unconscious person.
HEALTH HAZARDS (ACUTE AND CHRONIC): Acute Oral LD ₅₀ (rats) 1782 mg/kg. Acute Dermal LD ₅₀ (rabbits) >5000 mg/kg. Acute Inhalation LC ₅₀ (rats) >6.5 mg/L. May be sensitizing to skin. Eye Irritation (Rabbit) corrosive/severely irritating. Skin Irritation (Rabbit) Severely irritating.	
CARCINOGENICITY:	NTP? Not listed IARC MONOGRAPHS? Not listed OSHA REGULATED? Not listed
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.	

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Shroud Herbicide (Container size less than 42 gallons)

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SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED) 102°F TCC	FLAMMABLE LIMITS LEL: UEL: None set None set
EXTINGUISHING MEDIA CO ₂ , water, water fog, dry chemical, and chemical foam.	AUTOIGNITION TEMPERATURE Not known
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH-approved or equivalent) and full protective gear. Runoff should be contained.	
UNUSUAL FIRE AND EXPLOSION HAZARDS Fire produces noxious fumes, hydrogen chloride, chlorine, organic acids, and chloroanilines. Pesticide particulates may become airborne.	

SECTION 5 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Comply with fire, explosion, safety precaution, personal protective equipment sections of this MSDS before proceeding with cleanup. Absorb material with inert material such as "oil dry" and place in suitable container. Keep out of streams, water supplies, and sewers. Contact Cedar or Chemtrec if assistance is needed. For spills in excess of allowable limits (RQ) notify the National Response Center (800) 424-8802; refer to SARA Title III, Section 313.40 CFR 372, and CERCLA 40 CFR 302 for complete regulations concerning reporting requirements.

SECTION 6 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use. Protect containers from abuse and extreme temperatures. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Minimize body contact with this product as well as all chemicals in general.

SECTION 7 - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): Wear respirator (MSHA/NIOSH-approved or equivalent) suitable for mist or vapor concentrations encountered.

VENTILATION LOCAL EXHAUST: Required to control mist or vapor concentration.
MECHANICAL (GENERAL): Yes

PROTECTIVE GLOVES: Butyl rubber

EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Impervious apron should be worn. Easy access to eye wash facility and safety shower.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Shower after handling. Wash contaminated clothing before wearing again.

SECTION 8 - PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT 132°C	SPECIFIC GRAVITY (WATER = 1) 1.0621
VAPOR PRESSURE (mm Hg) 5 mmHg @ 60°F	pH Not applicable
VAPOR DENSITY (AIR = 1) Not available	EVAPORATION RATE (WATER = 1) Not available
SOLUBILITY IN WATER Emulsifiable	% VOLATILE (BY WEIGHT) Approximately 50%
APPEARANCE AND ODOR Brown liquid. Sweet aromatic odor.	

SECTION 9 - STABILITY AND REACTIVITY

STABILITY Stable when stored under normal warehouse conditions.	CONDITIONS TO AVOID: Store above 0°C to prevent freezing & precipitation of active ingredient.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong acid may cause hydrolysis	
HAZARDOUS DECOMPOSITION PRODUCTS: Noxious fumes may form.	
HAZARDOUS POLYMERIZATION Will not occur.	CONDITIONS TO AVOID: None known

SECTION 10 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Incinerate pesticide or triple rinse that cannot be used according to label directions and contaminated diking material in a permitted facility according to current local, state, and Federal regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. CEDAR CHEMICAL ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.