

MATERIAL SAFETY DATA SHEET

CENOL D200



SECTION 1 • IDENTIFICATION

IDENTITY:
CENOL D200
EPA Registration No. **45385-97** • Product Code: **W-200**
ACTIVE INGREDIENT CHEMICAL NAME: DELTAMETHRIN
CHEMICAL FAMILY: Synthetic Pyrethrum

Manufacturer's Name:
CTX/Cenol, Inc.
Address: 138 West Drive
Lodi, Ohio 44254

Prepared by: Bart Baker Date Prepared: July 16, 2008

HMIS Rating: Health: 1 Slight
Flammability: 1 Slight
Reactivity: 0 Negligible
Protection: Safety Glasses &
Rubber Gloves

Emergency Telephone Number:
CHEMTREC at 1-800-424-9300 or
National Pesticide Telecommunications Network at **1-800-858-7378** or
Telephone Number for Information:
9 AM to 5 PM EST - 888-281-7025

SECTION 2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	PEL	STEL	<-OSHA LIMITS ->		OPTIONAL %
				CEILING	ACGIH TLV	
Deltamethrin	52918-63-5	49mg/m3	(15minutes) 100mg/m3	N/A	N/A	0.02

SECTION 3 • PHYSICAL / CHEMICAL DATA

BOILING POINT: (F): 212° F or 100° C
MELTING/FREEZING POINT RANGE: 32° F or 0° C
SOLUBILITY IN H₂O: <0.20 µg/l @ 25° C
APPEARANCE / ODOR: Clear, viscous, odorless gel..
*This product is extremely toxic to fish.
SOLUBILITY IN SOLVENTS/OIL (SPECIFIED): N/A

SPECIFIC GRAVITY: (Water = 1): 1.00
VAPOR PRESSURE: (mm hg): N/A
VAPOR DENSITY: N/A
EVAPORATION RATE (Butyl Acetate = 1): N/A
MINIMUM IGNITION ENERGY (MJ): N/A
LIMITED OXYGEN CONCENTRATION (LOC): N/A

SECTION 4 • FIRE & EXPLOSION HAZARD DATA

FLASH POINT: >200° F >93° C
FLAMMABLE LIMITS: LEL: N/A UEL: N/A
FLAMMABILITY CLASSIFICATION/RATING:
NFPA/OSHA Class: IIIB NFPA Rating (Fire): 1

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained breathing apparatus, pressure-demand, MSHA/NIOSH approved (or equivalent) and full protective gear. Keep upwind. Isolate hazard area. Avoid inhalation of

smoke and fumes. Use water or foam to reduce fumes. Do not touch spilled material. If possible, move containers from area. Extinguish only if flow can be stopped. Use flooding amounts of water as a fog. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing vapors.

UNUSUAL FIRE & EXPLOSION HAZARDS: Do not use this product on electrical equipment due to the possibility of shock hazard. Cool containers exposed to intense heat with water to prevent container rupture from vapor pressure build-up.

SECTION 5 • REACTIVITY DATA

CHEMICAL STABILITY: Stable.
CONDITIONS TO AVOID:
INCOMPATIBLE MATERIALS:

DECOMPOSITION PRODUCTS:
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 6 • HEALTH HAZARD DATA

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

HEALTH HAZARDS (ACUTE and CHRONIC): May cause eye irritation.
 May cause skin irritation.

CARCINOGENICITY: **NTP?** **IARC MONOGRAPH?** **OSHA REGULATED?**
NO **NO** **NO**

SIGNS & SYMPTOMS OF EXPOSURE: General neurological symptoms were exhibited in studies with rats, mice and dogs. These symptoms included unsteadiness, abnormal gait, tremors and liquid feces. No histopathologic findings were observed except some signs of slight hepatotoxicity in mice. No Observable Effect Levels (NOEL'S) were 1 mg/kg/day in the 2-year rat and dog studies. The NOEL for the 2-year mouse study was approximately 12 mg/kg/day. Deltamethrin was not carcinogenic in rats or mice.

ACUTE TOXICITY: There is no acute toxicity data available for this formulation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin and respiratory disorders.

FIRST AID PROCEDURES:

EYES: Immediately flush eyes with plenty of 1% physiological saline for 5 minutes while holding eyelids open. If no saline is easily available, flush eyes with plenty of water.

SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

INGESTION: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

SECTION 7 • PRECAUTIONS FOR SAFE HANDLING

IN CASE MATERIAL IS RELEASED OR SPILLED:

ACCIDENTAL RELEASE MEASURES: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the adverse effect of the spill. Ensure that the disposal is in compliance with all Federal, Provincial and local regulations. Refer to Section 10 for applicable Reportable Quantity (RQ) and other regulatory requirements.

SMALL SPILLS: Absorb with an inert absorbent material such as granular clay, saw dust or pet litter. Sweep up carefully while avoiding the formation of a dust cloud. Place in an approved chemical waste container for disposal. Rinse spill area with small amount of soapy water. Contain and absorb the rinsate with absorbents and place into the same disposal container. Area can be washed off with water to remove the last trace residue. Do not allow water to contaminate water supplies or sewers.

LARGE SPILLS: Eliminate all ignition sources. Stop leak if you can do so without coming into contact with applied material. Dike far ahead of liquid spill for later disposal. All equipment used to clean up spill should be grounded. Prevent entry into waterways, sewers, basements or confined areas. Inform appropriate authorities immediately if contamination occurs. Contact CTX/ Cenol, Inc. for further assistance if necessary.

WASTE DISPOSAL METHOD: Do not reuse empty container. Wrap container in several layers of newspaper and discard in trash.

HANDLING AND STORAGE: Store product in original container in a cool, dry place out of the reach of children. Protect from freezing.

SECTION 8 • CONTROL MEASURES

RESPIRATORY PROTECTION: Ensure good ventilation. If not adequate use a chemical cartridge-type respirator (NIOSH approved).

VENTILATION: Control airborne concentrations below the appropriate exposure guideline (See Section 2). Local exhaust ventilation may be necessary.

PROTECTIVE GLOVES: Chemical resistant, (Neoprene, Nitrile, PVC) and other protective clothing to avoid skin contact.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Ventilation as required to control vapor concentration.

WORK / HYGIENIC PRACTICES: Explosion-proof ventilation. Air dry contaminated clothing in a well ventilated area.

SECTION 9 California Addendum (Proposition 65) Safe Water and Toxic Enforcement Act of 1986

The following specific warnings are hereby given relative to substances that the State of California has identified as carcinogens and/or reproductive hazards Under Proposition 65:

This product contains trace amounts of benzene (0.0006%) which is known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 10 SARA Title III Hazard Category

For Reporting Under Sections 302, 304, 311, 312 & 313

ACUTE HEALTH HAZARD - Yes DELAYED - No FIRE - No REACTIVE - No SUDDEN RELEASE OF PRESSURE - No

SECTION 11 • SHIPPING INFORMATION

HAZARD CLASS: Not Regulated - Insecticide Liquid NOI

UN NUMBER: UN3082, PGIII

Manufacture makes no warranty, express or implied, other than indicated on Label and MSDS. Customer assumes all risk of use and/or handling of this material when such use and / or handling is contrary to Label and MSDS

D.O.T. Hazard Classification: Not D.O.T. regulated.

Bill of lading Description: Chemicals, NOI

All information contained in this Material Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Material Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you and you must make independent determinations of the suitability and completeness of the information from all source to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed, or implied is made by CTX Cenol Inc. as to the results to be obtained based upon your use of the information nor does CTX Cenol Inc. assume any liability arising out of your use of the information.