

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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## Material Safety Data Sheet

Effective Date: 05-JUN-2013

Product: TAPOUT (EPA Reg. No. 5905-578)

### I. IDENTIFICATION

Chemical Name: Clethodim  
Chemical Family: Cyclohexene Oxime Herbicide  
Formula: Not applicable, formulated mixture.  
Synonyms: None  
CAS Number: 99129-21-2 (Clethodim)  
EPA Number: 5905-578

### II. PHYSICAL DATA

Boiling Point: Not determined  
Freezing Point: Not determined  
Spec Gravity: 0.915-0.935 gms/cc  
Vapor Pressure: Not determined  
Vapor Density: Not determined  
Solubility: Emulsifies  
Volatiles: Not determined  
Evaporation: Not determined  
Melting Point: Not applicable  
Appearance: Clear, amber liquid with mild odor.

### III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Clethodim	99129-21-2	12.6	NE	Moderate eye & skin irritant.
Inert ingredients, including surfactants and methylated soybean oil.		87.4	NE	Skin & eye irritant.

### IV. FIRE AND EXPLOSION HAZARD

Flash Point: Not determined  
Autoignition Temp: Not determined  
Flammable Limit: Not determined  
Extinguishing Media: Use foam, dry chemical, carbon dioxide or water fog extinguishing agents.  
Special Fire Fight Proc: Wear self-contained breathing apparatus and full protective clothing.  
Fire and Expl Hazard: May produce toxic and irritating fumes under fire conditions.

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V. HEALTH HAZARD  
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Carcinogen Information: Not listed by IARC, NTP or OSHA.

ACUTE EFFECTS OF OVER EXPOSURE  
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Swallowing: This product is minimally toxic when ingested.  
Skin Absorption: This product is minimally toxic if absorbed through skin.  
Inhalation: This product is minimally toxic when spray mists or vapors are inhaled.  
Skin contact: Mild irritation may occur after direct skin contact with this product. Symptoms include itching, redness, swelling or blistering of the skin.  
Eye Contact: Eye contact with this product may cause prolonged or significant irritation.  
Chronic Effects: In test studies, animals exposed to Clethodim technical, the active ingredient in this formulation, have been observed to have increased liver weights and anemia.  
Other Hazard: Prolonged or repeated skin exposures may cause drying, scaling and blistering of the skin.

EMERGENCY AND FIRST AID PROCEDURES  
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Swallowing: Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless instructed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.  
Skin: Remove contaminated clothing. Immediately rinse skin with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.  
Inhalation: Move to fresh air. If not breathing, call 911 or an ambulance and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.  
Eyes: Immediately hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for further treatment advice.

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Notes to Physician: Treatment should be directed toward control of the symptoms and the clinical condition of the patient.

VI. REACTIVITY

Stability: Stable

Conditions to Avoid: May become unstable after exposure to extreme pH, extreme temperatures and upon exposure to UV light.

Polymerization: Will Not Occur

Conditions to Avoid: None currently known.

Incompatibility material: May react with strong oxidizing agents, such as chlorates, nitrates and peroxides.

Hazardous Combustion: May product toxic and irritating fumes under fire conditions.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spilled liquids with absorbent materials, such as clay, sand or sawdust. Wash spill area with soap and water. Collect and place in same containers as collected spill material. Do not allow spilled product to enter waterways, lakes, streams, ponds or storm drains.

Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.

Ventilation: General and/or local exhaust should be sufficient.

Gloves: Chemical-resistant gloves.

Eyes: Splashproof goggles.

Other: Eyewash station, impervious apron and footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store

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with food, feed or other material to be used or consumed by humans or animals. Do not contaminate water supplies, lakes, streams, ponds or storm drains with this product. Do not use or store near flame, sparks or hot surfaces. Use only in well-ventilated areas. Keep containers closed when not in use.

Other precaution: Store in a cool, dry place out of direct sunlight.

## X. SHIPPING INFORMATION

Shipping name: Not regulated by DOT, IATA or IMDG.

Hazard Class: None

Identification No: None

Labels Required: None required

Placarding: None

Freight Class: Pesticides, NOI, Herbicides, Other than Poison  
(NMFC Item 155050, Sub 11, Class 70)

Chemical Name

Equivalent R.Q.

Not applicable

Not applicable

## XI. GENERAL PRODUCT INFORMATION

National Fire Protection Association Rating:

(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 1

Fire: 1

Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y

Delayed (Chronic) Health: N

Sudden Release of pressure: N

Fire: N

Reactive: N

Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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