

MATERIAL SAFETY DATA SHEET

Drexel Chemical Co.
1700 Channel Avenue
Memphis, TN 38113
(901) 774-4370

Emergency Telephone No.

1-800-424-9300 (ChemTrec)

SECTION I – GENERAL INFORMATION

TRADE NAME	Chloropicrin
CHEMICAL NAME	Chloropicrin (Trichloronitromethane)
CHEMICAL FAMILY	Halonitroalkane
EPA REG. NO.	N/A
SIGNAL WORD	Danger

SECTION II – INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Chloropicrin	76-06-2	96%	0.1 ppm	H
Trace quantities of water and HCl		4%		

SECTION III – PHYSICAL DATA

<u>Boiling Point</u>	233°F (112°C)	<u>Specific Gravity</u>	1.66
<u>Vapor Pressure</u>	18.3 @ 20°C	<u>% Volatiles</u>	N.K.
<u>Vapor Density</u>	Appr. 5.7 (Air = 1.0)	<u>Solubility in water</u>	0.2 g/100 g
<u>pH</u>	N.K.	<u>Appearance/Odor</u>	Colorless liquid intensely irritating tear gas odor

SECTION IV – FIRE & EXPLOSION DATA

Flash Point	Not combustible
Extinguishing Media	All conventional extinguishing media are suitable.
Fire Fighting Procedures	Not a combustible. Heated material decomposes violently at 233°F (112°C) especially when in contact with metals. Toxic and irritating gases will emit. Assure S.C.B.A. is worn. Stay up wind.

SECTION V – REACTIVITY DATA

Stability	Unstable under fire conditions. Avoid Temperatures above 140°F (60°C)
Conditions to Avoid Incompatibility	Organic amines, reducing agents and sulfuric acid. Incompatible with containers or equipment made of aluminum, magnesium or their alloys.
Hazardous Decomposition Products	Highly toxic phosgene and toxic nitrogen oxide.
Hazardous Polymerization	Not known to occur.

SECTION VI – HEALTH HAZARD DATA

Carcinogenicity	N.A.
Toxicity Data	Oral LD50 (RAT): 250 mg/kg. Dermal LD50 (rabbit): 62 mg/kg
TLV	0.1 ppm (ACGIH Classification is A4) N.F.P.A. 4-0-3 (Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)
Effects of Overexposure	Severe eye irritation (corneal injury). Severe skin burns. Ingestion may cause serious burns to mouth and throat, and even death. Inhalation can cause serious injury or death (methemoglobinemia).

SECTION VII – EMERGENCY PROCEDURES

If Inhaled: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

If on Skin: In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Properly dispose of leather items which cannot be decontaminated (i.e. shoes, watchbands, belts).

If in Eyes: Immediately flush eyes with plenty of water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Get medical attention immediately.

If Swallowed: Do not induce vomiting. Give large amounts of water or milk (8 fl. ozs. Or 240 ml). Do not give anything by mouth to an unconscious person. Get medical attention immediately.

Note to Physician: If methemoglobin is >10-20% consider Methylene blue 1-2 mg/kg body weight as 1% solution intravenously over 5 minutes followed by 15-30 cc flush (Price D, Methemoglobinemia, Goldfrank Toxicologic Emergencies, 5th Ed., 1994). If burn is present, treat as any thermal burn, after decontamination. Due to irritant properties, swallowing may result in burns/ulceration of mouth, stomach and lower gastrointestinal tract with subsequent stricture. Aspiration of vomitus may cause lung injury. Suggest endotracheal/esophageal control if lavage is done. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Chloropicrin is a volatile liquid that is an active ingredient in tear gas. As a gas, it is a powerful lacrymator. Symptoms of overexposure are profuse lacrymation, respiratory distress and vomiting. Pulmonary edema may develop later. In all cases of overexposure, get medical attention immediately by transporting to an emergency treatment facility. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

SECTION VIII- SPILL OR LEAK PROCEDURES

Steps to be taken in case of material leak or spill
Contain spills and prevent runoff or entering of waterways. Assure protective equipment is worn. Pick up spills with absorbent material and place in suitable containers.

Waste Disposal Method
Dispose of in accordance with Local, State, and Federal Regulations.

SECTION IX – SPECIAL PROTECTION INFORMATION

Respiratory Protection	Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use a NIOSH approved positive-pressure air respirator for organic vapors.
supplied-Ventilation	Provide controls to assure levels below exposure guidelines.
Protective Gloves	Impervious rubber
Eye Protection shield	Use chemical goggles. Wear a face-which allows use of chemical goggles, or wear a full-face respirator to protect face and eyes when there is any likelihood of splashes. Eye wash fountain should be located in immediate work area.

The information presented herein for consideration, while not guaranteed, is true and accurate to the best of our knowledge. No warranty, or guaranty is expressed or implied regarding the accuracy or reliability of such information and we shall not be liable for any loss or consequential damages arising out of the use thereof.

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SECTION X – SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Store away from foodstuffs.

D.O.T. Description	Chloropicrin, 6.1, UN-1580, PG 1, poison-inhalation hazard, hazard zone B.
Freight Description	Warning agent, Liquid, N.O.S.
ERG #	154