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Chloroform

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ScholAR' Chemistry

MSDS # 182.00

Section 1:

Product and Company Identification

Chloroform

Synonyms/General Names: Trichloromethane

Product Use: For educational use only

Manufacturer: Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300 CANUTEC (Canada): 613-424-6666

ScholAR Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2:

Hazards Identification

Clear liquid; mild, sweet odor..

HMIS (0 to 4)

WARNING! Body tissue irritant, moderately toxic by ingestion or inhalation. Possible carcinogen Target organs: Central nervous system, liver, kidneys.

Health 3
Fire Hazard 0
Reactivity 0

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3:

Composition / Information on Ingredients

Chloroform, (67-66-3), 100%

Section 4:

First Aid Measures

Always seek professional medical attention after first aid measures are provided.

Eyes: Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally. Skin: Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.

Ingestion: Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.

Induce vomiting immediately.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

Section 5:

Fire Fighting Measures

Non-flammable solid. When heated to decomposition, emits acrid fumes.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire. Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



Section 6:

Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7:

Handling and Storage

Blue

Handling: Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.

Storage: Store in Toxic Storage Area [Blue Storage] with other toxic material. Store in a dedicated poison cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8:

Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an organic cartridge. Exposure guidelines: Chloroform: OSHA PEL: 240 mg/m³ ceiling, ACGIH: TLV: 49 mg/m³, STEL: Not Available.

N/A = Not available or applicable

Section 9: Physical and Chemical Properties			
Molecular formula	CHCl _{3.}	Appearance	Clear, colorless liquid.
Molecular weight	N/A.	Odor	Mild, sweet odor.
Specific Gravity	119.39 g/mL @ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	N/A.	Solubility	Slightly soluble.
Melting Point	N/A.	Evaporation rate	N/A (Butyl acetate = 1).
Boiling Point/Range	61.1°C.	Partition Coefficient	$N/A (log P_{OW}).$
Vapor Pressure (20°C)	N/A.	рH	N/A.
Flash Point:	N/A.	LEL	N/A.
Autoignition Temp.:	N/A.	UEL	N/A.

Section 10:

Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: Alkalis, oxidizers, metallic fines or powders, acetone, aluminum, disilane and magnesium.

Shelf life: Indefinite if stored properly.

Section 11:

Toxicology Information

Acute Symptoms/Signs of exposure: Eyes: Redness, tearing, itching, burning, conjunctivitis. Skin: Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. *Inhalation*: Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: IARC possible carcinogen.

Sensitization: none expected

Chloroform: LD50 [oral, rat]; 695 mg/kg; LC50 [rat]; 47,702 mg/m³/4hr; LD50 Dermal [rabbit]; 500 mg/mild

Material has been classified as a Group 2B – a possible carcinogen to humans by IARC.

Section 12:

Ecological Information

Ecotoxicity (aquatic and terrestrial):

Toxic to terrestrial and aquatic plants and animals. Do not release to environment.

Section 13:

Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14:

Transport Information

DOT Shipping Name: DOT Hazard Class:

Chloroform. 6.1, pg III.

Canada TDG: Chloroform. Hazard Class: 6.1, pg III.

DOT Hazard Class: Identification Number:

UN1888.

UN Number: UN1888.

Section 15:

Regulatory Information

EINECS: Listed (200-663-8).

WHMIS Canada: D1B: Toxic, D2A: Very Toxic, D2B: Toxic.

TSCA: All components are listed or are exempt.

California Proposition 65: Listed as a carcinogen.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16:

Other Information

Current Issue Date: September 22, 2012

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