

Rec 5-10-93

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MATERIAL SAFETY DATA SHEET

LANGS STANDARD SOLUTIONS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION:

CATALOG NUMBER(S): 1959
CHEMICAL NAME: Chloroform
TRADE NAME: Trichloromethane
FORMULA: CHCl_3

MANUFACTURER:

LANGS STANDARD SOLUTIONS, INC.
13445 SOUTH HARRELLS FERRY ROAD
BATON ROUGE, LA 70816
INFORMATION AND EMERGENCY PHONE: (504)751-0011
CHEMTREC PHONE NUMBER: 800-424-9300

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

COMPONENT	CAS#	APPROX %
Chloroform	67-66-3	>99
Ethanol	64-17-5	<1.0

3. HAZARDS IDENTIFICATION: EMERGENCY OVERVIEW:

Eye contact: liquid, vapor and mist may cause irritation. Slight corneal injury is possible. May cause conjunctivitis.

Skin contact: Brief contact may cause dryness. Prolonged or repeated contact could cause irritation, dermatitis, or even a mild burn.

If ingested, Swallowing is followed immediately by severe burning of the mouth and throat, Pain in the chest and vomiting. Liver damage can result.

If inhaled, product is a potential anesthetic. Acute overexposure can cause nausea, vomiting, drowsiness, headache and dizziness.

Inhaling could cause unconsciousness and eventually death.

NOTE TO PHYSICIAN: May cause chemical pneumonia if aspirated into the lungs. Moderately toxic. If lavage is performed, suggest endotracheal and/or esophagosopic control. May increase myocardial irritability. Avoid epinephrine or similar acting drugs, if possible.

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4. FIRST AID MEASURES:

If inhaled: remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

In case of eye contact: Immediately flush eyes with lots of water for at least 15 minutes. Lift lids occasionally to insure adequate flushing. Get medical attention.

In case of skin contact: Immediately flood skin with lots of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops after flooding with water.

5. FIRE FIGHTING MEASURES:

FLASH POINT: TEST METHOD: Non-flammable

LEL: % = N/A

UEL: % = N/A

Not combustible. Use extinguishing media suitable for surrounding materials. Fire fighters should use full protective equipment. Use water spray to cool nearby containers.

Unusual fire and explosion hazards: Extinguish all sources of ignition since vapors decompose to hazardous products at high temperatures. In the presence of strong alkalies and water, chloroform may become violently explosive.

6. ACCIDENTAL RELEASE MEASURES:

Extinguish all ignition sources. For small spills or drips, absorb with non-combustible sorbent material and containerize for disposal. Wash area well with water.

A safety shower and eyewash should be nearby and ready for immediate use.

7. HANDLING AND STORAGE:

Store away from sources of heat and moisture. Keep out of direct sunlight. Keep the container tightly closed except when in immediate use. Materials to avoid- Alkalies, Oxidizing materials, Water, Moist air, and aluminum.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION:

Use only with good localized ventilation or with respirator to avoid exceeding TLV. Safety glasses with side shields, impervious gloves, long sleeves and apron are recommended when working with this product. Should clothing or shoes become contaminated, remove and launder before reuse.

It is generally recognized that contact lens should not be worn while working with chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Boiling Point = 142F Specific Gravity = 1.49
Melting Point = -82F % Solubility = 0.8%
Vapor pressure = 160 mm Hg/20 Deg.C Evaporation Rate = 11.6
Vapor density = 4.1 air=1
Physical Appearance: clear, colorless liquid with mildly sweet odor.

10. STABILITY AND REACTIVITY:

Stable for some time, but slowly oxidizes to poisonous Phosgene gas upon exposure to air and sunlight.
Hazardous polymerization will not occur.
Thermal decomposition may liberate carbon monoxide, carbon dioxide, hydrogen chloride, chloride, or phosgene.
Materials to avoid: alkalies, aluminum, moist air, and oxidizers.

11. TOXICOLOGICAL INFORMATION:

oral Rat LD50 = 1-2 g/Kg
dermal Rabbit LD50 >4 g/Kg
inhalation = Rat LCLo = 8,000 ppm/4 Hr.
Carcinogenicity : Chloroform is listed as a potential carcinogen in the NIP Fourth Annual report on Carcinogens and in the IARC monographs.
Chronic effects of overexposure: may result in delayed liver or kidney damage. Will increase risk of cancer.

12. ECOLOGICAL INFORMATION:

When in a spill or disposal situation, do not allow any of this product to escape into the surface drainage, sewer or surface water supplies.

13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with all local, state and federal regulations.
Empty containers can have residues, gases and mists and are subject to proper disposal requirements.

14. TRANSPORT INFORMATION:

DOT: ORM-A UN1888

Under certain conditions there are size and special packaging requirements for this material consult 49 CFR regulations.

15. REGULATORY INFORMATION:

This product is a toxic chemical subject to the reporting requirements of section 313 of Title 111 of the Superfund amendments and reauthorization act of 1986 and 40 CFR part 372. This product is considered by the state of California's safe drinking water and toxic enforcement act of 1986 (proposition 65) as causing cancer or reproductive toxicity and for which warnings are required.

16. OTHER INFORMATION:

Vapors and mists of this product are heavier than air and could travel and collect in low places such as pits or degreasing racks or other poorly ventilated places. Do not enter such places where vapors are suspected unless an observer is present.

REVISION HISTORY: Original: 1986 Revised 1989, 1991 and 1993

N/A = NOT AVAILABLE

N/E = NONE ESTABLISHED

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