
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Chloroform
Synonyms	Trichloromethane, Methylidene trichloride
Grade	ACS, HPLC, Pesticide, Anapremium, Dehydrous
Company	Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula	CHCl ₃
CAS-No.	67-66-3
Index-No.	602-006-00-4
Ec-No.	200-663-8
Concentration	≥ 98 %

3. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity, Oral	Category 4
Skin irritation	Category 2
Carcinogenicity	Category 2
Specific target organ toxicity - repeated exposure	Category 2

According to European Directive 67/548/EEC as amended.

Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Limited evidence of a carcinogenic effect. Irritating to skin.

4. FIRST AID MEASURES

Inhalation	If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician immediately.
Skin Contact	Immediately wash off with soap and plenty of water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting fire if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. For disposal see section 13.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

Engineering Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
----------------------	--

Personal protective Equipment

Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Hand protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Eye protection	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin and body protection	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid, clear
Color	Colorless
pH	No available information
Melting point	-63 °C (-81.4 °F)
Boiling point	60.5 °C (140.9 °F)
Flash point	No available information
Autoignition temperature	No available information
Lower explosion limit	No available information
Upper explosion limit	No available information
Vapor pressure	213.3 hPa at 20.0 °C (68.0 °F)
Density	1.492 g/mL at 25 °C (77 °F)
Water solubility	No available information
Partition coefficient: n-octanol/ water	log Pow: 1.97
Molecular weight	119.38

10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions.
Conditions to avoid	No available information
Materials to avoid	Strong oxidizing agents, Strong bases, Magnesium, odium/sodium oxides, Lithium
Hazardous decomposition products	Formed under fire conditions. - Carbon oxides, Hydrogen chloride gas Contains the stabiliser(s): Ethanol

11. TOXICOLOGICAL INFORMATION

Acute toxicity	No available information
Skin irritation	No available information
Eye irritation	No available information
Sensitization	No available information
Germ cell mutagenicity	No available information
Specific target organ toxicity – single exposure (GHS)	No available information
Specific target organ toxicity – repeated exposure (GHS)	No available information
Carcinogenicity	IARC: 2B - Group 2B: Possibly carcinogenic to humans (Chloroform)
Reproductive toxicity	No available information
Aspiration hazard	No available information
Potential health effects	Inhalation Harmful if inhaled. May cause respiratory tract irritation. Ingestion Harmful if swallowed. Skin Harmful if absorbed through skin. May cause skin irritation. Eyes Causes serious eye irritation
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: No available information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability	No available information
Toxicity to fish	No available information
Toxicity to daphnia and other aquatic invertebrates	No available information
Toxicity to algae	No available information
Bioaccumulative potential	No available information
Results of PBT and vPvB assessment	No available information
Mobility	No available information
Other adverse effects	Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging	Dispose of as unused product.

14. TRANSPORT INFORMATION

IATA

UN-Number: 1888 Class: 6.1 Packing group: III
Proper shipping name: Chloroform

IMDG

UN-Number: 1888 Class: 6.1 Packing group: III
Proper shipping name: Chloroform
EMS-No. F-A, S-A

DOT (US)

UN-Number: 1888 Class: 6.1 Packing group: III
Proper shipping name: Chloroform
Marine pollution: No

15. REGULATORY INFORMATION

Hazard statements

H225: Highly flammable liquid and vapour.

H302: Harmful if swallowed

H315: Causes skin irritation

H351: Suspected of causing cancer

H373: May cause damage to organs through prolonged or repeated exposure

Precautionary statements

P281: Use personal protective equipment as required

GHS-Labeling

Pictogram



Signal word *Warning*

Labeling according to EC Directive

Symbol(s): Xn - Harmful

R-phrase(s): 22-38-40-48/20/22

Harmful if swallowed. Irritating to skin. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

S-phrase(s): 36/37

Wear suitable protective clothing and gloves.

16. OTHER INFORMATION

Copyright 2011 Anaqua Chemicals Supply. License granted to make unlimited paper copies for internal use only. The information, data, and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by us to be accurate. We make no warranties, either expressed or implied, with respect thereto and assume no liability in connection with any use of such information, data, and recommendations.