



MATERIAL SAFETY DATA SHEETS

9

Acetylene tetra chloride

1. CHEMICAL IDENTITY

Chemical Name : Acetylene tetra chloride

Chemical Classification: Toxic

Trade Name :

Synonyms: 1,1,2,2-Tetrachloroethane ; sym-Tetrachloroethane

Formula : C₂H₂Cl₄

CAS No: 79-34-5

UN No: 1702

Regulated Identification

Shipping Name :

Hazchem Code : 2X

Codes / Label : Class 6.1, Toxic

Hazardous Waste ID No :

HAZARDOUS INGREDIENTS	C.A.S. No.	HAZARDOUS INGREDIENTS	C.A.S. No.
1 Acetylene tetra chloride	79-34-5	3	
2		4	

2. PHYSICAL / CHEMICAL DATA

Boiling Pt. °C: 146.3

Physical State: Liquid

Appearance: Colorless to pale yellow liquid .

Melting Pt °C: -43.8

Vapour Pressure @ 35°C mmHg: 6 mm Hg at 25° C

Odour: Sweet odor

Vapour Density(Air =1): 5.79

Solubility in water at 30°C (20°C) g/100ml: 0.29 g/100ml

Others:

Specific Gravity (Water =1): 1.5953 g/cu cm at 20 °C

pH :

3. FIRE / EXPLOSION HAZARD DATA

Flammability : No

LEL:

Flash Point °C in OC:

TDG Flammability:

UEL:

Flash Point °C in CC:

Autoignition Temperature °C :

Explosion sensitivity to impact:

Explosion sensitivity to static Electricity:

Hazardous Combustion Products : Irritating hydrogen chloride vapor may form in fire.

Hazardous Polymerization :

Combustible Liquid:

Explosive Material:

Corrosive Material

Flammable Material: No

Oxidiser :

Others:

Pyrophoric Material:

Organic Peroxide :

4. REACTIVITY DATA

Chemical Stability : Stable under normal temperatures and pressures.

Incompatibility with other material : Strong oxidizing agents - strong bases - sodium - potassium.

Reactivity : Degrades slowly when exposed to air.

Hazardous Reaction Products : Hydrogen chloride, phosgene, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

5. HEALTH HAZARD DATA

Routes of entry: Inhalation, Ingestion, skin and eyes

Effects of Exposure / Symptoms:

May cause respiratory tract irritation. Inhalation may produce coughing, nausea, and pulmonary edema. May cause skin irritation. May cause eye irritation. Lachrymator. May cause liver damage. May cause digestive tract disturbances. Repeated exposure may cause central nervous system damage.

Emergency Treatment :

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not use mouth-to-mouth respiration.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

LD50 (oral-rat) mg/kg:	250 mg/kg	STEL:	
LC50 (rat) mg/kg:	8.6 mg/L/4 hr	Odour Threshold:	less than 3 ppm
Permissible Exposure Limit:	5 ppm (35 mg/m ³)	TLV (ACGIH) :	1 ppm, skin

NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	3	0	0	

6. PREVENTIVE MEASURES

Personal Protective Equipment : Wear appropriate protective eyeglasses or chemical safety goggles.

Equipment : Wear appropriate gloves to prevent skin exposure. Wear an impervious apron. Wear appropriate protective clothing to minimize contact with skin. Wear an impervious apron.

Handling : Wash thoroughly after handling. Wash hands before eating. Avoid breathing dust, vapor, mist, or gas. Keep container tightly closed. Handle under an inert atmosphere. Store protected from air. Avoid mechanical shock and friction.

Storage : Do not store in direct sunlight. Keep containers tightly closed. Do not expose to air. Store under an inert atmosphere.

Precautions :

7. EMERGENCY / FIRST AID MEASURES

FIRE:

Fire Extinguishing Media : For small fires, use dry chemical, carbon dioxide, or water spray. For large fires, use water spray, fog or regular foam.

Special Procedure : Cool containers with flooding quantities of water until well after fire is out. Use agent most appropriate to extinguish surrounding fire.

Unusual Hazards : Containers may explode in the heat of a fire. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas.

EXPOSURE: First Aid Measures:

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not use mouth-to-mouth respiration.

- Skin:** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
- Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Ingestion:** Never give anything by mouth to an unconscious person. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Antidotes / Dosages:

SPILLS :

Steps To Be Taken : Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways. Provide ventilation. Do not get water inside containers.

Waste Disposal Method:

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

NAME OF FIRM :	Contact person
MAILING ADDRESS :	in Emergency :
TELEPHONE / TELEX NOS :	Local Bodies involved :
TELEGRAPHIC ADDRESS :	Standard Packing :
OTHERS :	Trem Card Details / Ref :

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