

CC 1/4
July 1, 1986

MATERIAL SAFETY DATA SHEET

SECTION I NAME

Product	CARBON TETRACHLORIDE
Chemical Synonyms	Perchloromethane
Formula	CCl ₄
Unit(s) Size	up to 20 Liters.
C.A.S. No.	56-23-5

0
3
0

CHEMTREC
800-424-9300
Day 716-226-6177
Night 716-334-4222

NFPA
HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	Carbon Tetrachloride	%	TLV Units
		>99%	See Section V.

DANGER! POISON

Based on animal testing, it is recommended, that this material be labeled "cancer causing agent".

SECTION III PHYSICAL DATA

Melting Point (°F)	-23°C.	Specific Gravity (H ₂ O=1)	1.5845 @ 25°/4°
Boiling Point (°F)	172.4°F	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	91 mm @ 20°C.	Evaporation Rate (Ether = 1)	Unknown (very volatile)
Vapor Density (Air = 1)	5.31		
Solubility in Water	0.080 mL. per 100 mL. water at 20°C.		
Appearance and Odor	Clear, colorless, heavy liquid; ethereal odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible (NA)	Flammable Limits in Air	Lower NA Upper
Extinguisher Media	Use any media suitable for extinguishing the supporting fire.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved, self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Carbon tetrachloride is not flammable and not explosive in air at ordinary temperatures and pressure. It will not support combustion, but will decompose in a fire to form phosgene. Metals, such as aluminum and magnesium, can react violently with carbon tetrachloride when hot or burning.

D.O.T.

OTHER REGULATED MATERIAL-A.



FREY SCIENTIFIC
905 HICKORY LANE MANSFIELD OHIO 44905
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20
MSDS No. Effective Date

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

Effects of Overexposure

EYE CONTACT: Transient irritation, but no significant corneal injury. SKIN CONTACT: Short single exposure- no significant irritation. Prolonged or repeated exposure- up to moderate irritation. SKIN ABSORPTION: Not readily absorbed.

Emergency and First Aid Procedures

EYES: Flush with plenty of water. Get medical attention. SKIN: Flush with water. Remove contaminated clothing. INHALATION: Remove to fresh air. Get prompt medical attention. Start artificial respiration if breathing stops. INGESTION: If conscious, give 1 or 2 glasses of water to drink. Induce vomiting. Repeat until vomit fluid is clear. Get immediate medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid
	Stable	X

Incompatibility (Materials to avoid)

Stable at moderate temperatures when dry.

Hazardous Decomposition Products

Thermal-oxidation decomposition will produce toxic, corrosive fumes, including phosgene and hydrogen chloride.

Hazardous Polymerization

May Occur

Will Not Occur

Conditions to Avoid

Steps to be taken in case material is released or spilled

Evacuate area. Provide maximum ventilation. Small spills and residues can be absorbed in paper, vermiculite, sand or earth.

Waste Disposal Method

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal company.

SECTION VII SPECIAL PROTECTION INFORMATION

Respirator Protection (Specify Type)

Work in ventilation hood or wear a NIOSH-approved respirator.

Ventilation

Local Exhaust

Mechanical (General)

Yes

Special

Other

No

Protective Gloves

Use polyvinyl gloves.

Eye Protection

Chemical safety glasses.

Other Protective Equipment

Goggles and shield, lab coat and apron, ventilation hood, proper gloves, eye wash station.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area away from acute fire hazard. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Use with due caution, since the chronic properties (and even the acute properties) are not well known.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. No. 1 Date 1/2/87 Approved [Signature] Chemical Safety Coordinator

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