

## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Product Name: Carbon tetrabromide 98%

Product Code: C04635

Supplier: Pfaltz & Bauer, Inc.  
172 E. Aurora Street  
Waterbury, CT 06708 USA

Phone: 203-574-0075

FAX: 203-574-3181

Emergency Phone: INFOTRAC, US: 1-800-535-5053  
INFOTRAC, INTERNATIONAL: +1-352-323-3500

## SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazard: Environmentally hazardous, Irritant, Respiratory irritant, Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be harmful by ingestion, toxic by skin absorption and fatal by inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H: 2 F: 0 P: 0

NFPA Rating: H: 2 F: 0 R: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):  
GHS Classification in accordance with Regulation (EC) No 1272/2008:

Acute toxicity, dermal (Category 3), H311  
Acute toxicity, inhalation (Category 1), H330  
Acute toxicity, oral (Category 4), H302  
Hazardous to the aquatic environment, chronic toxicity (Category 1), H410  
Serious eye damage/eye irritation (Category 2A), H319  
Skin corrosion/irritation (Category 2), H315  
Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3), H335

Pictogram:



Signal Word:

Danger

Hazard Statement(s):

H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H330 Fatal if inhaled.  
H335 May cause respiratory irritation.  
H410 Very toxic to aquatic life with long-lasting effects.

Precautionary Statement(s):

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.  
P302+P352 IF ON SKIN: wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 IF SKIN irritation occurs: Get medical advice/attention.  
P391 Collect spillage. Hazardous to the aquatic environment.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### **SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS**

Chemical Name: Carbon tetrabromide 98%

Synonyms:

Synonym: Tetrabromomethane

CAS Number: 558-13-4

MDL Number: MFCD00000117

EINECS Number: 209-189-6

Beilstein Registry Number: 1732799

Molecular Formula: CBr<sub>4</sub>

Molecular Weight: 331.63

Content: As specified in product name.

#### **SECTION 4: FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

#### **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point (°C): 190

Explosion Limits: Not Available

Auto Ignition Temperature (°C): Not Available

Extinguishing Media: Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray

Protective Equipment: Wear self-contained respirator and fully protective impervious suit.

Specific Hazards: May emit hazardous fumes under fire conditions.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed. Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

#### **SECTION 7: HANDLING and STORAGE**

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.  
Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Moisture

Storage Temperature (°C): 15 to 30

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

| <u>Exposure Limits:</u> | <u>Country</u> | <u>Source</u> | <u>Type</u> | <u>Value</u>  |
|-------------------------|----------------|---------------|-------------|---------------|
|                         | USA            | ACGIH         | TWA         | Not Available |
|                         | USA            | OSHA          | STEL        | Not Available |
|                         | USA            | OSHA          | PEL         | Not Available |

## **SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

Appearance: Colorless to off-white crystalline solid

Odor: Not Available

Odor Threshold: Not Available

Flash Point (°C): 190

Auto Ignition Temperature (°C): Not Available

UEL % by Volume: Not Available

LEL % by Volume: Not Available

Melting Point (°C): 90-95

|  |                     |
|--|---------------------|
| <u>Boiling Point (°C):</u>                 | 190                 |
| <u>Evaporation Rate:</u>                   | Not Available       |
| <u>pH Value:</u>                           | Not Available       |
| <u>Density (g/cm<sup>3</sup>):</u>         | 3.420               |
| <u>Refractive Index (n<sup>20D</sup>):</u> | 1.5942              |
| <u>Viscosity:</u>                          | Not Available       |
| <u>Solubility in Water:</u>                | Insoluble           |
| <u>Solubility in Other:</u>                | Soluble in Methanol |
| <u>Vapor Pressure (mmHg):</u>              | 40                  |
| <u>Vapor Density (Air=1):</u>              | 11.4                |

## **SECTION 10: STABILITY and REACTIVITY**

|  |  |
|--|--|
| <u>Stability:</u>                        | Stable under normal temperatures and pressures.                                      |
| <u>Incompatibility:</u>                  | Strong oxidizing agents, Stron   |
| <u>Reactivity:</u>                       | Product may react with incompatible materials to release other hazardous substances. |
| <u>Conditions to Avoid:</u>              | Heat, flame, sparks, other ignition sources.   |
| <u>Hazardous Decomposition Products:</u> | Carbon oxides, Hydrogen bromide gas  |

## **SECTION 11: TOXICOLOGICAL INFORMATION**

|                         |   |
|-------------------------|---|
| <u>RTECS Reference:</u> | FG4725000   |
| <u>Target Organs:</u>   | Liver, Kidney   |
| <u>Toxicity Data:</u>   | Oral Rat LD <sub>50</sub> mg/kg: 1000.00<br>Intravenous Mouse LD <sub>50</sub> mg/kg: 56.00 |
| <u>Carcinogenicity:</u> | National Toxicology Program (NTP) listed:<br>Not Available                                  |

Potential Symptoms: Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Toxicity: Not Available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

## **SECTION 14: TRANSPORT INFORMATION**

DOT Shipping Name: Carbon Tetrabromide

DOT UN Number: UN2516

DOT Hazard Class: Class 6.1

DOT Packing Group: PGIII

IMDG Shipping Name: Carbon Tetrabromide

IMDG UN Number: UN2516

IMDG Hazard Class: Class 6.1

IMDG Packing Group: PGIII

Marine Pollutant: Yes

IATA Shipping Name: Carbon Tetrabromide

IATA UN Number: UN2516

IATA Hazard Class: Class 6.1

IATA Packing Group: PGIII

## **SECTION 15: REGULATORY INFORMATION**

United States

Toxic Substance Control Act (TSCA) listed: Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed: No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed: No

Superfund Amendments and Reauthorization Act (SARA 313) listed: No

European Union

European Inventory of Existing Chemical Substances (EINECS): 209-189-6

GHS Classification in accordance with Regulation (EC) No 1272/2008: Yes

Canada

Canadian Domestic Substances List (DSL) listed: Yes

Canadian Non-Domestic Substances List (NDSL) listed: No

**SECTION 16: OTHER INFORMATION**

Date Prepared: 11/19/2025

The information above is presented in good faith. It is believed to be accurate and represents the best information currently available to us. However, we make no warranty with respect to such information and we assume no liability resulting from its use. The user should consider this information as a supplement to other information that may be available and make independent judgement to ensure proper use to protect the health and safety of employees and the environment. Pfaltz and Bauer shall not be held liable for any damage resulting from handling or from contact with the above product.