

# Parachlorobenzotrifluoride

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
SDS Reference Number: M900  
Revision date: 7/2/2025 Supersedes: 3/7/2025

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Substance  
Trade name : Parachlorobenzotrifluoride  
Chemical name : p-CHLORO- $\alpha,\alpha,\alpha$ -TRIFLUOROTOLUENE  
CAS-No. : 98-56-6  
Product code : 900, 900R, 900ASA, 900 ASAC  
Formula : C7H4ClF3

#### 1.2. Other means of identification

Synonyms : 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene / PCBTF  
EC-No. : 202-681-1

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Organic solvent, Formulation of preparations, Adhesives, sealants, Chemical raw material, Coatings and paints, thinners, paint removers  
Restrictions on use : Not determined

#### 1.4. Supplier's details

SMC Global  
70 West 40th Street, 2nd Floor  
New York, NY 10018  
Ph: (646) 366-0400  
Fax: (646) 366-0595

#### 1.5. Emergency phone number

Emergency number : CHEMTREC - (800) 424-9300 | Outside the US: +1 (703) 527-3887

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                                                        |      |                                                  |
|------------------------------------------------------------------------|------|--------------------------------------------------|
| Flammable liquid, Category 3                                           | H226 | Flammable liquid and vapor.                      |
| Skin corrosion/irritation, Category 2                                  | H315 | Causes skin irritation.                          |
| Serious eye damage/eye irritation, Category 2                          | H319 | Causes serious eye irritation.                   |
| Skin sensitization, Category 1B                                        | H317 | May cause an allergic skin reaction.             |
| Carcinogenicity, Category 2                                            | H351 | Suspected of causing cancer (Inhalation).        |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 | May cause drowsiness or dizziness.               |
| Hazardous to the aquatic environment — Acute Hazard, Category 2        | H401 | Toxic to aquatic life.                           |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2      | H411 | Toxic to aquatic life with long lasting effects. |

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US)



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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (GHS US)              | : Warning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Hazard statements (GHS US)        | : H226 - Flammable liquid and vapor<br>H315 - Causes skin irritation<br>H317 - May cause an allergic skin reaction<br>H319 - Causes serious eye irritation<br>H336 - May cause drowsiness or dizziness<br>H351 - Suspected of causing cancer (Inhalation).<br>H401 - Toxic to aquatic life<br>H411 - Toxic to aquatic life with long lasting effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Precautionary statements (GHS US) | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground/Bond container and receiving equipment.<br>P241 - Use explosion-proof electrical, lighting, ventilating equipment.<br>P242 - Use non-sparking tools.<br>P243 - Take action to prevent static discharges.<br>P261 - Avoid breathing mist, vapors, spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P271 - Use only outdoors or in a well-ventilated area.<br>P272 - Contaminated work clothing must not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves.<br>P302+P352 - If on skin: Wash with plenty of soap and water.<br>P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.<br>P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 - If exposed or concerned: Get medical advice/attention.<br>P312 - Call a POISON CENTER if you feel unwell.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P337+P313 - If eye irritation persists: Get medical advice or attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), extinguishing powder to extinguish.<br>P391 - Collect spillage.<br>P403+P233 - Store in a well-ventilated place. Keep container tightly closed.<br>P403+P235 - Store in a well-ventilated place. Keep cool.<br>P405 - Store locked up.<br>P501 - Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations. |

### 2.3. Hazards associated with known or reasonably anticipated uses

PCBTf can degrade some plastics and elastomers and can cause material swelling or degradation in equipment seals, gaskets, and gloves which increases chance of exposure to employees. Spray applications of paints, coatings, and adhesives generates airborne mists and vapors. Inhalation of vapors/mist can cause dizziness, drowsiness, headaches, or respiratory irritation. Prolonged exposure may lead to central nervous system (CNS) effects. Chronic exposure may cause cancer. Exposure to skin and eye can cause serious irritation and skin sensitization and allergic reactions. Users should ensure proper PPE is always worn to mitigate exposure risks.

### 2.4. Hazards not otherwise classified

No additional information available

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### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name                                                     | Product identifier | %    | GHS US classification                                                                                                                                                          |
|----------------------------------------------------------|--------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Parachlorobenzotrifluoride (PCBTF)<br>(Main constituent) | CAS-No.: 98-56-6   | ≥ 99 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Carc. 2, H351<br>STOT SE 3, H336<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.                                       |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Wash with water and soap. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.                                       |
| First-aid measures after eye contact  | : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service. |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Do NOT induce vomiting unless directed to do so by medical personnel. Get immediate medical advice/attention.                                                             |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |                                                                                                                        |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation   | : May cause drowsiness or dizziness. Headache. Nausea.                                                                 |
| Symptoms/effects after skin contact | : Causes skin irritation. May cause an allergic skin reaction.                                                         |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Redness of the eye tissue.                                                            |
| Symptoms/effects after ingestion    | : May be harmful if swallowed and enters airways. May cause gastric irritation. May cause stomach cramps and vomiting. |
| Chronic symptoms                    | : May cause cancer.                                                                                                    |

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                              |                                     |
|------------------------------|-------------------------------------|
| Suitable extinguishing media | : Dry powder. Foam. Carbon dioxide. |
|------------------------------|-------------------------------------|

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Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents. Do not use a water jet since it may cause the fire to spread.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Will not normally support combustion.  
Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray. Intense heat may cause container to burst.  
Hazardous decomposition products in case of fire : On burning: release of toxic and corrosive gases/vapours (hydrogen chloride). Hydrogen fluoride. Carbon oxides (CO, CO<sub>2</sub>).

### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so. Exposure to fire/heat: keep upwind. Keep container tightly closed and away from heat, sparks and flame. This product is not to be used under conditions of poor ventilation.  
Firefighting instructions : Eliminate all ignition sources if safe to do so. Evacuate area. Fight fire with normal precautions from a reasonable distance. Use self-contained breathing apparatus and chemically protective clothing.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not handle until all safety precautions have been read and understood. Evacuate area. Remove ignition sources. Heavier than air, vapors may travel long distances along ground, ignite and flash back to source. Use personal protective equipment as required. Use special care to avoid static electric charges.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Evacuate area. Keep upwind. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Wear full protective clothing and breathing apparatus when dealing with all spillage (see item 8). Remove ignition sources. Stop leak if safe to do so. Prevent entry to sewers and public waters.

Environmental precautions : Avoid release to the environment.

### 6.2. Methods and materials for containment and cleaning up

For containment : Stop leak if safe to do so. Dike for recovery or absorb with appropriate material. Prevent entry to sewers and public waters.  
Methods for cleaning up : Take up liquid spill into absorbent material. Use suitable disposal containers. Ground/bond container and receiving equipment.  
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

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### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

|                                   |                                                                                                                                                                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling     | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing mist, spray, vapors. Ground/bond container and receiving equipment.                                        |
| Technical measures                | : Prevent electrostatic discharges (e.g. grounding, dissipative materials).                                                                                                                                                                               |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Wear personal protective equipment. Handle in accordance with good industrial hygiene and safety procedures. |
| Additional hazards when processed | : Avoid contact with skin, eyes and clothing. Avoid inhalation of vapors. Ensure good ventilation of the work station. In use, may form flammable vapor-air mixture.                                                                                      |

#### 7.2. Conditions for safe storage, including incompatibilities

|                        |                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures     | : Ground/bond container and receiving equipment. Take precautionary measures against static discharge.                                                                               |
| Storage conditions     | : Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Incompatible materials | : Strong oxidizers. Strong acids. Strong bases. Peroxides. Water.                                                                                                                    |
| Heat-ignition          | : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a cool, well-ventilated place.                                             |
| Specific end uses      | : Industrial use. Formulation of preparations.                                                                                                                                       |
| Packaging materials    | : SUITABLE MATERIAL: HDPE, PTFE, Kynar, stainless steel. MATERIAL TO AVOID: Carbon steel, natural rubber, EPDM, neoprene.                                                            |

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

|                                  |                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appropriate engineering controls | : Ensure good ventilation of the work station. Always wash hands and face immediately after handling this product, and once again before leaving the workplace. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety procedures. |
| Environmental exposure controls  | : Avoid release to the environment.                                                                                                                                                                                                                                                                                                                               |

#### 8.3. Individual protection measures, such as personal protective equipment

|                                                                               |
|-------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                       |
| Wear protective gloves. Nitrile rubber gloves. Butyl-rubber protective gloves |
| <b>Eye protection:</b>                                                        |
| Chemical goggles or face shield                                               |
| <b>Skin and body protection:</b>                                              |
| Wear suitable protective clothing                                             |
| <b>Respiratory protection:</b>                                                |
| Wear respiratory protection.                                                  |

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### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| Physical state                                  | : Liquid                          |
| Appearance                                      | : Colorless liquid.               |
| Color                                           | : No data available               |
| Odor                                            | : Aromatic.                       |
| Odor threshold                                  | : 0.1 ppm                         |
| pH                                              | : Not determined                  |
| Melting point                                   | : No data available               |
| Freezing point                                  | : -33 °C                          |
| Boiling point                                   | : ≈ 139 °C @ 1,013 hPa (760 mmHg) |
| Flash point                                     | : 42.8 °C (109°F) Closed cup      |
| Relative evaporation rate (butyl acetate=1)     | : 0.9                             |
| Flammability (solid, gas)                       | : No data available               |
| Vapor pressure                                  | : 7.63 mm Hg @ 25 deg C           |
| Relative vapor density at 20°C                  | : 6.2                             |
| Relative density                                | : No data available               |
| Density                                         | : 1.33 – 1.35                     |
| Molecular mass                                  | : 180.56 g/mol                    |
| Solubility                                      | : Water: 29 mg/l                  |
| Partition coefficient n-octanol/water (Log Pow) | : 3.6 (estimated value)           |
| Auto-ignition temperature                       | : > 500                           |
| Decomposition temperature                       | : No available data               |
| Viscosity, kinematic                            | : No data available               |
| Explosion limits                                | : 0.9 – 10.5 vol %                |
| Particle characteristics                        | : No data available               |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. When heated to decomposition, emits toxic fumes.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Heating may cause a fire. Proper grounding procedures to avoid static electricity should be followed.

### 10.4. Conditions to avoid

Flammable or explosive vapor/air mixtures may be formed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Water, humidity.

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### 10.5. Incompatible materials

Strong acids. Strong oxidizers. Strong bases. Peroxides. Incompatible with water, humid air.

### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). hydrogen chloride. hydrogen fluoride.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Parachlorobenzotrifluoride (98-56-6) |                        |
|--------------------------------------|------------------------|
| LD50 oral rat                        | 5546 mg/kg             |
| LD50 dermal rabbit                   | > 3300 mg/kg           |
| LC50 Inhalation - Rat                | 32.03 mg/l/4h          |
| ATE US (oral)                        | 5546 mg/kg body weight |
| ATE US (vapors)                      | 32.03 mg/l/4h          |
| ATE US (dust, mist)                  | 32.03 mg/l/4h          |

Skin corrosion/irritation : Causes skin irritation.  
pH: Not determined

Serious eye damage/irritation : Causes serious eye irritation.  
pH: Not determined

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (Inhalation).

| Parachlorobenzotrifluoride (98-56-6) |                                      |
|--------------------------------------|--------------------------------------|
| IARC group                           | 2B - Possibly carcinogenic to humans |

Reproductive toxicity : Not classified  
STOT-single exposure : May cause drowsiness or dizziness.  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

| Parachlorobenzotrifluoride (98-56-6) |                   |
|--------------------------------------|-------------------|
| Viscosity, kinematic                 | No data available |

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Headache. Nausea.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation. Redness of the eye tissue.

Symptoms/effects after ingestion : May be harmful if swallowed and enters airways. May cause gastric irritation. May cause stomach cramps and vomiting.

Chronic symptoms : May cause cancer.

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### SECTION 12 Ecological information

#### 12.1. Ecotoxicity

|                                                           |                                                    |
|-----------------------------------------------------------|----------------------------------------------------|
| Ecology - general                                         | : Toxic to aquatic life.                           |
| Ecology - air                                             | : Not dangerous for the ozone layer.               |
| Hazardous to the aquatic environment, short-term (acute)  | : Toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | : Toxic to aquatic life with long lasting effects. |

| Parachlorobenzotrifluoride (98-56-6) |                                                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| LC50 - Fish [1]                      | 3 mg/l 96 hr                                                              |
| EC50 - Crustacea [1]                 | 2 mg/l 48hr                                                               |
| LC50 - Fish [2]                      | 13.5 mg/l Oncorhynchus mykiss/ (Rainbow trout); Conditions: static; 24 hr |
| EC50 - Other aquatic organisms [2]   | 0.41 mg/l Algae (72hr)                                                    |
| NOEC (chronic)                       | 0.7 mg/l Daphia magna. 24 and 48 hr                                       |

#### 12.2. Persistence and degradability

| Parachlorobenzotrifluoride (98-56-6) |                    |
|--------------------------------------|--------------------|
| Persistence and degradability        | No data available. |

#### 12.3. Bioaccumulative potential

| Parachlorobenzotrifluoride (98-56-6)            |                       |
|-------------------------------------------------|-----------------------|
| Partition coefficient n-octanol/water (Log Kow) | 3.6 (estimated value) |

#### 12.4. Mobility in soil

| Parachlorobenzotrifluoride (98-56-6) |                   |
|--------------------------------------|-------------------|
| Mobility in soil                     | No data available |

#### 12.5. Other adverse effects

|                              |                                     |
|------------------------------|-------------------------------------|
| Ozone                        | : Not classified                    |
| Effect on the ozone layer    | : Not dangerous for the ozone layer |
| Fluorinated greenhouse gases | : No                                |

### SECTION 13 Disposal considerations

|                         |                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods | : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT             | TDG    | IMDG | IATA |
|-----------------|--------|------|------|
| 14.1. UN number |        |      |      |
| UN2234          | UN2234 | 2234 | 2234 |

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| DOT                                                                    | TDG                                                                       | IMDG                                                                                                                                        | IATA                                                                                                     |
|------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>14.2. Proper Shipping Name</b>                                      |                                                                           |                                                                                                                                             |                                                                                                          |
| Chlorobenzotrifluorides<br>(paraChlorobenzotrifluoride)                | CHLOROBENZOTRIFLUORIDES<br>(paraChlorobenzotrifluoride)                   | CHLOROBENZOTRIFLUORIDES<br>(paraChlorobenzotrifluoride)                                                                                     | Chlorobenzotrifluorides<br>(paraChlorobenzotrifluoride)                                                  |
| <b>Transport document description</b>                                  |                                                                           |                                                                                                                                             |                                                                                                          |
| UN2234 Chlorobenzotrifluorides<br>(paraChlorobenzotrifluoride), 3, III | UN2234<br>CHLOROBENZOTRIFLUORIDES<br>(paraChlorobenzotrifluoride), 3, III | UN 2234<br>CHLOROBENZOTRIFLUORIDES<br>(paraChlorobenzotrifluoride), 3, III,<br>MARINE<br>POLLUTANT/ENVIRONMENTALLY<br>HAZARDOUS (36°C c.c.) | UN 2234 Chlorobenzotrifluorides<br>(paraChlorobenzotrifluoride), 3, III,<br>ENVIRONMENTALLY<br>HAZARDOUS |
| <b>14.3. Transport hazard class(es)</b>                                |                                                                           |                                                                                                                                             |                                                                                                          |
| 3                                                                      | 3                                                                         | 3                                                                                                                                           | 3                                                                                                        |
|                                                                        |                                                                           |                                                                                                                                             |                                                                                                          |
| <b>14.4. Packing group</b>                                             |                                                                           |                                                                                                                                             |                                                                                                          |
| III                                                                    | III                                                                       | III                                                                                                                                         | III                                                                                                      |
| <b>14.5. Environmental hazards</b>                                     |                                                                           |                                                                                                                                             |                                                                                                          |
| Dangerous for the environment: Yes                                     | Dangerous for the environment: Yes                                        | Dangerous for the environment: Yes<br>Marine pollutant: Yes                                                                                 | Dangerous for the environment: Yes                                                                       |
| No supplementary information available                                 |                                                                           |                                                                                                                                             |                                                                                                          |

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

#### DOT

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN-No. (DOT)                                                     | : UN2234                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DOT Special Provisions (49 CFR 172.102)                          | : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.<br>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).<br>T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 220 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|                                              |                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------|
| DOT Vessel Stowage Location                  | : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel. |
| DOT Vessel Stowage Other                     | : 40 - Stow “clear of living quarters”                                                                  |
| <b>TDG</b>                                   |                                                                                                         |
| UN-No. (TDG)                                 | : UN2234                                                                                                |
| Explosive Limit and Limited Quantity Index   | : 5 L                                                                                                   |
| Excepted quantities (TDG)                    | : E1                                                                                                    |
| Passenger Carrying Road Vehicle or Passenger | : 60 L                                                                                                  |
| Carrying Railway Vehicle Index               |                                                                                                         |
| Emergency Response Guide (ERG) Number        | : 130                                                                                                   |
| <b>IMDG</b>                                  |                                                                                                         |
| Limited quantities (IMDG)                    | : 5 L                                                                                                   |
| Excepted quantities (IMDG)                   | : E1                                                                                                    |
| Packing instructions (IMDG)                  | : P001, LP01                                                                                            |
| IBC packing instructions (IMDG)              | : IBC03                                                                                                 |
| Tank instructions (IMDG)                     | : T2                                                                                                    |
| Tank special provisions (IMDG)               | : TP1                                                                                                   |
| EmS-No. (Fire)                               | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS                                       |
| EmS-No. (Spillage)                           | : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS                                                     |
| Stowage category (IMDG)                      | : A                                                                                                     |
| Stowage and handling (IMDG)                  | : SW2                                                                                                   |
| Flash point (IMDG)                           | : 36°C to 59°C c.c.                                                                                     |
| <b>IATA</b>                                  |                                                                                                         |
| PCA Excepted quantities (IATA)               | : E1                                                                                                    |
| PCA Limited quantities (IATA)                | : Y344                                                                                                  |
| PCA limited quantity max net quantity (IATA) | : 10L                                                                                                   |
| PCA packing instructions (IATA)              | : 355                                                                                                   |
| PCA max net quantity (IATA)                  | : 60L                                                                                                   |
| CAO packing instructions (IATA)              | : 366                                                                                                   |
| CAO max net quantity (IATA)                  | : 220L                                                                                                  |
| ERG code (IATA)                              | : 3L                                                                                                    |

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

| Parachlorobenzotrifluoride (98-56-6)                         |                                                                                                                                                                                                                                         |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | None                                                                                                                                                                                                                                    |
| SARA Section 311/312 Hazard Classes                          | Delayed (chronic) health hazard<br>Immediate health hazard.<br>Fire hazard<br>Health hazard - Respiratory or skin sensitization<br>Health hazard - Serious eye damage or eye irritation<br>Health hazard - Skin corrosion or Irritation |

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

# Parachlorobenzotrifluoride

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

### 15.2. International regulations

#### CANADA

##### Parachlorobenzotrifluoride (98-56-6)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

##### Parachlorobenzotrifluoride (98-56-6)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. State regulations

##### Parachlorobenzotrifluoride (98-56-6)

|                                                                     |           |
|---------------------------------------------------------------------|-----------|
| U.S. - California - Proposition 65 - Carcinogens List               | Yes       |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No        |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No        |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No        |
| No significant risk level (NSRL)                                    | 23 µg/day |

 **WARNING:** This product can expose you to Parachlorobenzotrifluoride, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Revision date : 3/7/2025

#### Full text of hazard classes and H-statements

|      |                                                 |
|------|-------------------------------------------------|
| H226 | Flammable liquid and vapor                      |
| H315 | Causes skin irritation                          |
| H317 | May cause an allergic skin reaction             |
| H319 | Causes serious eye irritation                   |
| H336 | May cause drowsiness or dizziness               |
| H351 | Suspected of causing cancer.                    |
| H401 | Toxic to aquatic life                           |
| H411 | Toxic to aquatic life with long lasting effects |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

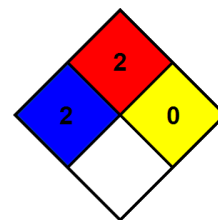
NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

# Parachlorobenzotrifluoride

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating  
Health : 2 Moderate Hazard - Temporary or minor injury may occur  
Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)  
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.  
Personal protection : H - Splash goggles, Gloves, Synthetic apron, Vapor respirator

### Safety Data Sheet (SDS), USA

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.