

## Safety Data Sheet

### 1. Identification of the substance

- 1.1. *Product identifiers:* **Product Name:** Tetrachlorophthalic anhydride  
*Synonyms:*  
**Catalog number:** QE-0137  
**CAS Number:** 117-08-8
- 1.2. *Identified use:* Laboratory chemicals, for scientific research and development only.
- 1.3. *Supplier:* Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-635-8950. Email: sales@combi-blocks.com.
- 1.4. *Emergency Contact:* During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. After business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (international).

### 2. Hazards identification

- 2.1. *Classification of the substance or mixture:*  
 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
- Sensitisation, Skin (Category 1), H317  
 Serious eye damage/eye irritation (Category 1), H318  
 Sensitisation, respiratory (Category 1), H334  
 Carcinogenicity (Category 1A, 1B), H350  
 Specific target organ toxicity, repeated exposure (Category 2), H373  
 Hazardous to the aquatic environment, long-term hazard (Category 1), H410

- 2.2. *GHS Label elements, including precautionary statements:*

Pictograms



Signal word

Danger

Hazard statement(s).

- H317 May cause an allergic skin reaction  
 H318 Causes serious eye damage  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
 H350 May cause cancer  
 H373 May cause damage to organs through prolonged or repeated exposure  
 H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s).

- P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P281 Use personal protective equipment as required.  
 P285 In case of inadequate ventilation wear respiratory protection.  
 P302+P352 If on skin: Wash with soap and water.  
 P304+P341 If inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P314 Get Medical advice/attention if you feel unwell.

<i>P333+P313</i>	If skin irritation or a rash occurs: Get medical advice/attention.
<i>P342+P311</i>	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
<i>P363</i>	Wash contaminated clothing before reuse.
<i>P391</i>	Collect spillage.
<i>P405</i>	Store locked up.
<i>P501</i>	Dispose of contents/container to an approved waste disposal plant.

### 3. Composition/information on ingredients.

#### 3.1. Substances

COMPONENT	CLASSIFICATION	CONCENTRATION
Tetrachlorophthalic anhydride	H317, H318, H334, H350, H373, H410	≤ 100

See Section 2 for full text of hazard statements.

### 4. First aid measures

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

<i>General advice:</i>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<i>If inhaled:</i>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
<i>In case of skin contact:</i>	Wash with soap and water.
<i>In case of eye contact:</i>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<i>If swallowed:</i>	Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed:

No data.

### 5. Fire fighting measures

- 5.1. *Extinguishing media:* Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 5.2. *Special hazards arising from the substance or mixture:* Carbon monoxide, hydrogen chloride.
- 5.3. *Advice for firefighters:* Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4. *Further information:* No data available.

### 6. Accidental release measures

- 6.1. *Personal precautions, protective equipment and emergency procedures:*  
Ensure adequate ventilation. Use personal protective equipment.
- 6.2. *Environmental precautions:*  
Should not be released into the environment. See Section 12 for additional ecological information.
- 6.3. *Methods and materials for containment and cleaning up:*  
Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4. *Reference to other sections:*  
Refer to protective measures listed in Sections 8 and 13.

### 7. Handling and storage

- 7.1. *Precautions for safe handling:* Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- 7.2. *Conditions for safe storage, including any incompatibilities:* 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.
- 7.3. *Specific end use(s):* Laboratory chemicals, for scientific research and development only.

### 8. Exposure Controls / Personal protection

### 8.1. Control parameters:

*Components with workplace control parameters:* Contains no substances with occupational exposure limit values.

### 8.2. Exposure controls:

*Appropriate engineering controls:* Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use only under a chemical fume hood.

*Personal protective equipment:*

*Eye/face protection:* Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

*Skin 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

*Body Protection:* Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

*Respiratory protection:* Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

*Control of environmental exposure:* Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

(a) Appearance:	Solid
(b) Odour:	No data
(c) Odour Threshold:	No data
(d) pH:	No data
(e) Melting point/freezing point:	No data.
(f) Initial boiling point and boiling range:	No data
(g) Flash point:	No data
(h) Evaporatoin rate:	No data
(i) Flammability (solid, gas):	No data
(j) Upper/lower flammability or explosive limits:	No data
(k) Vapour pressure:	No data
(l) Vapour density:	No data
(m) Relative density:	No data
(n) Water solubility:	No data
(o) Partition coefficient: n-octanol/water:	No data
(p) Auto-ignition:	No data
(q) Decomposition temperature:	No data
(r) Viscosity:	No data
(s) Explosive properties:	No data
(t) Oxidizing properties:	No data

### 9.2. Other safety information:

Formula	C <sub>8</sub> Cl <sub>4</sub> O <sub>3</sub>
Molecular weight	285.9
CAS Number	117-08-8

## 10. Stability and reactivity

- 10.1. Reactivity No data
- 10.2. Chemical stability Stable under recommended storage conditions.
- 10.3. Possibility of hazardous reactions No data
- 10.4. Conditions to avoid

10.5. *Incompatible material* Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously combustible substances, substances which are dangerous when wet, oxidizing substances, organic peroxides, poisons, radioactive materials.

10.6. *Hazardous decomposition products:*

*Hazardous decomposition products formed under fire conditions:* Carbon monoxide, hydrogen chloride.

*Other decomposition products:* No data

*In the event of fire:* See Section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

*Acute toxicity:* .

*Skin irritation/corrosion:* No data available.

*Eye damage/irritation:* Causes serious eye damage.

*Respiratory or skin sensitization:* May cause allergy or asthma symptoms or breathing difficulties if inhaled.

*Germ cell mutagenicity:* No data available.

*Carcinogenicity:* May cause cancer.

*Reproductive toxicity:* No data available.

*Specific target organ system toxicity - single exposure:* No data available.

*Specific target organ system toxicity - repeated exposure:* May cause damage to organs through prolonged or repeated exposure.

*Aspiration hazard:* No data available.

*Additional information:* To the best of our knowledge, the chemical, physical and toxicological properties of this substance have not been thoroughly investigated.

## 12. Ecological information

12.1. *Toxicity* No data available.

12.2. *Persistence and degradability* Very toxic to aquatic life with long lasting effects.

12.3. *Bioaccumulative potential* No data available

12.4. *Mobility in soil* No data available

12.5. *Results of PBT and vPvB assessment* No data available.

12.6. *Other adverse effects* No data available.

## 13. Disposal Considerations

### 13.1. Waste treatment methods

*Product* Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

*Contaminated packaging* Dispose of as unused product.

## 14. Transportation information

*DOT (US), IMDG and IATA:*

*UN Number:* UN3077 *Class:* 9 *Packing group:* III

*Proper shipping name:* ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (NOT INCLUDING WASTE) (Tetrachlorophthalic anhydride)

## 15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

## 16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.