

Section 1. Product and Company Identification

**Product Name** Trimellitic Anhydride  
**CAS Number** 552-30-7

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
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**EMERGENCY RESPONSE NUMBER**  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute toxicity, Oral (Category 4), H302  
Serious eye damage (Category 1), H318  
Respiratory sensitization (Category 1), H334  
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H302 Harmful if swallowed.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.

**Precautionary Statements**

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink, or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
P285 In case of inadequate ventilation wear respiratory protection.



P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.  
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.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P330 Rinse mouth.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

**Common Name** Trimellitic Anhydride  
**Synonym(s)** Benzene-1,2,4-tricarboxylic anhydride  
**Formula** C<sub>9</sub>H<sub>4</sub>O<sub>5</sub>  
**CAS Number** 552-30-7

COMPONENT	CAS NUMBER	CONCENTRATION
Trimellitic Anhydride	552-30-7	≤ 100%

Section 4. First Aid Measures

**Description of first-aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or CO<sub>2</sub>



**Special hazards arising from the substance or mixture:** Carbon oxides  
**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.  
**Further information:** No data available

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions:** Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Moisture sensitive.

Section 8. Exposure Controls / Personal Protection

**Control parameters**  
**Components with workplace control parameters**

Component	CAS Number	Value	Control Parameters	Basis
Trimellitic Anhydride	552-30-7	STEL	0.002 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
	Remarks	Dermal Sensitization Respiratory sensitization Respiratory sensitization 2014 Adoption Danger of cutaneous absorption		
		STEL	0.002000 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
		Respiratory sensitization Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Danger of cutaneous absorption Sensitizer		
		TWA	0.005000 ppm 0.040000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		TMA is also a synonym for Trimethylamine. Should be handled in the workplace as an extremely toxic substance.		

		TWA	0.000500 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
		Respiratory sensitization Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Danger of cutaneous absorption Sensitizer		
		TWA	0.0005 mg/m <sup>3</sup>	USA ACGIH Threshold Limit Values (TLV)
		Dermal Sensitization Respiratory sensitization Respiratory sensitization 2014 Adoption Danger of cutaneous absorption		

### Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Personal protective equipment

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**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, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Do not let product enter drains.

### Section 9. Physical and Chemical Properties

#### Appearance

**Form:** solid

**Color:** light brown

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/range:** 164 - 168°C (327 - 334°F)

**Melting point/range:** 163 - 166°C (325 - 331°F) - lit.

**Initial boiling point and boiling range:** No data available

**Flash point (Closed Cup):** 227°C (441°F)



**Evaporation rate:** No data available  
**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits**

**Upper explosion limit:** 7% (V)

**Lower explosion limit:** 1% (V)

**Vapor pressure:** No data available  
**Vapor density:** No data available  
**Relative density:** No data available  
**Water solubility:** No data available  
**Partition coefficient (n-Octanol/water):** No data available  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available

**Other safety information:** No data available

Section 10. Stability and Reactivity

**Reactivity:** No data available  
**Chemical stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** No data available  
**Conditions to avoid:** No data available  
**Incompatible materials:** Strong acids, Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

**Other decomposition products:** No data available

In the event of fire: see section 5

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

LD50 Oral - Mouse: 1,900 mg/kg

Remarks: Lungs, Thorax, or Respiration: Dyspnea.

Dermal: No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Germ cell mutagenicity:** No data available



### **Carcinogenicity**

**IARC:** No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific Target Organ Toxicity - Single Exposure:** May cause respiratory irritation.

**Specific Target Organ Toxicity - Repeated Exposure:** No data available

**Aspiration hazard:** No data available

### **Additional Information**

**RTECS:** DC2050000

Cough, Shortness of breath, Headache, Nausea

Stomach - Irregularities - Based on Human Evidence

### Section 12. Ecological Information

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available

### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

### Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

### Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.



**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right to Know Components**

Trimellitic anhydride (CAS-No. 552-30-7)

Revision Date: 1994-04-01

**Pennsylvania Right to Know Components**

Trimellitic anhydride (CAS-No. 552-30-7)

Revision Date: 1994-04-01

**New Jersey Right to Know Components**

Trimellitic anhydride (CAS-No. 552-30-7)

Revision Date: 1994-04-01

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health:** 2\*

**Flammability:** 1

**Reactivity:** 0

**NFPA Rating**

**Health:** 2

**Flammability:** 1

**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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