

**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31

Revision number: 2

Revision date: 04/11/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifiers**

Product name: Trimellitic Anhydride
Product code: C0046

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet**Supplier:**

TCI EUROPE N.V.
 Boerenveldseweg 6
 Haven 1063
 B-2070 Zwijndrecht
 Telephone: +32(0)3 735 07 00
 E-mail: sales-eu@tcichemicals.com

1.4 Emergency telephone number: +32(0)70 245 245

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

| | |
|--|------------------------------|
| Serious eye damage/eye irritation | Category 1 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity - Single exposure [Category 3] | Respiratory tract irritation |

2.2 Label elements**Pictograms or hazard symbols****Signal word**

Danger

Hazard statements

H318-Causes serious eye damage.
 H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317-May cause an allergic skin reaction.
 H335-May cause respiratory irritation.

Precautionary statements

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.
 P284-Wear respiratory protection.
 P280-Wear protective gloves, face protection.
 P302+P352+P333+P313+P362+P364-IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Take off contaminated clothing. And wash it before reuse.
 P304+P340+P312-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
 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.
 Dust explosion possible if in powder or granular form, mixed with air.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

| | |
|--------------------------|--|
| Components: | Trimellitic Anhydride |
| Percent: | >97.0%(HPLC)(T) |
| CAS RN: | 552-30-7 |
| EC-No: | 209-008-0 |
| Synonyms: | 1,2,4-Benzenetricarboxylic 1,2-Anhydride , 4-Carboxyphthalic Anhydride |
| Chemical Formula: | C ₉ H ₄ O ₅ |

SECTION 4: First aid measures

4.1 Description of first aid measures

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|------------------------------------|--|
| Inhalation: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. |
| Skin contact: | Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician. |
| Eye contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Call a POISON CENTER or doctor/physician. |
| Ingestion: | Call a POISON CENTER or doctor/physician. Rinse mouth. |
| Protection of first-aiders: | A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles. |

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide, Carbon monoxide

5.3 Advice for firefighters

Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc

6.2 Environmental precautions

Prevent product from entering drains

6.3 Methods and materials for containment and cleaning up

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid contact with skin, eyes and clothing.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-sensitive

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

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|----------------------------------|---|
| 8.1 Control parameters | |
| ACGIH TLV(TWA): | 0.0005 mg/m ³ (IFV) |
| ACGIH TLV(STEL): | 0.002 mg/m ³ (IFV) |
| JSOH OELs(TWA): | 0.0005 mg/m ³ (skin) |
| JSOH OELs(CL): | 0.004 mg/m ³ (skin) |
| 8.2 Exposure controls | Install a closed system or local exhaust. Also install safety shower and eye bath. |
| Respiratory protection: | Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations. |
| Hand protection: | Impervious gloves. |
| Eye protection: | Safety goggles. A face-shield, if the situation requires. |
| Skin and body protection: | Impervious protective clothing. Protective boots, if the situation requires. |

SECTION 9: Physical and chemical properties

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| 9.1 Information on basic physical and chemical properties | |
| Physical state (20°C): | Solid |
| Form: | Crystal - Powder |
| Colour: | White - Pale yellow |
| Odour: | Odorless |
| pH: | No data available |
| Melting point/freezing point: | 167°C |
| Boiling point/range: | 245°C /1.9kPa |
| Flash point: | No data available |
| Evaporation rate(Butyl Acetate=1): | No data available |
| Flammability(solid, gas): | No data available |
| Flammability or explosive limits: | |
| Lower: | 1% |
| Upper: | 7% |
| Vapour pressure: | 0.1 x 10 ⁻⁶ Pa/25°C |
| Vapour density: | 6.6 |
| Relative density: | No data available |
| Solubility(ies): | |
| [Water] | No data available |
| [Other solvents] | |
| Soluble: | Acetone, Ethanol, Dimethylformamide(DMF), Ethyl acetate, Many organic solvents |
| Insoluble: | Carbon tetrachloride, Petroleum ether |
| Partition coefficient: n-octanol/water: | 1.95 |
| Autoignition temperature: | No data available |
| Decomposition temperature: | No data available |
| Dynamic Viscosity: | No data available |
| Kinematic viscosity: | No data available |
| 9.2 Other safety information | No data available |

SECTION 10: Stability and reactivity

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|--|--|
| 10.1 Reactivity | No data available |
| 10.2 Chemical stability | Stable under proper conditions. |
| 10.3 Possibility of hazardous reactions | Dust explosion possible if in powder or granular form, mixed with air. |
| 10.4 Conditions to avoid | Static discharge |
| 10.5 Incompatible materials | Oxidizing agents, Strong acids, Strong bases |
| 10.6 Hazardous decomposition products | Carbon dioxide, Carbon monoxide |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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|---|--|
| Acute Toxicity: | ihl-rat LC:>7400 mg/m ³ /4H orl-mus LD50:1900 mg/kg skn-mus TDL0:10 pph |
| Skin corrosion/irritation: | No data available |
| Serious eye damage/irritation: | No data available |
| Respiratory or skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | |
| IARC = | No data available |
| NTP = | No data available |
| Reproductive toxicity: | No data available |
| STOT-single exposure: | No data available |
| STOT-repeated exposure: | No data available |
| Aspiration hazard: | No data available |
| RTECS Number: | DC2050000 |

SECTION 12: Ecological information

12.1 Toxicity

| | |
|-------------------|-------------------|
| Fish: | No data available |
| Crustacea: | No data available |
| Algae: | No data available |

12.2 Persistence and degradability 96% (by BOD) , 99% (by TOC)

12.3 Bioaccumulative potential No data available

12.4 Mobility in soil

| | |
|---|-------------------|
| Log Pow: | 1.95 |
| Soil adsorption (Koc): | No data available |
| Henry's Law (PaM³/mol): | No data available |

12.5 Results of PBT and vPvB assessment

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|--------------|----------------|
| PBT: | Not applicable |
| vPvB: | Not applicable |

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

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| 14.1 UN number | Not listed |
| 14.2 UN proper shipping name | |
| ADR/RID | Not listed |
| IMDG/IMO | Not listed |
| ICAO/IATA | Not listed |
| 14.3 Transport hazard class(es) | |
| ADR/RID | Does not correspond to the classification standard of the United Nations |
| IMDG/IMO | Does not correspond to the classification standard of the United Nations |
| ICAO/IATA | Does not correspond to the classification standard of the United Nations |
| 14.4 Packaging group | |
| ADR/RID | - |
| IMDG/IMO | - |
| ICAO/IATA | - |
| 14.5 Environmental hazards | |
| Marine pollutant | - |
| 14.6 Special precautions for user | No data available |

SECTION 15: Regulatory information

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006 | Listed (Candidate List) |
| 15.2 Chemical safety assessment | A chemical safety assessment has not been carried out. |

SECTION 16: Other information

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|---------------------|-----------------|
| Prepared by: | TCI EUROPE N.V. |
| Issue date: | 04/11/2019 |

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

End of Safety Data Sheet