

MATERIAL SAFETY DATA SHEET

Product Name: SUCCINIC ANHYDRIDE

Revision Date: 11.11.2009

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1. Manufacturer/Supplier Identification

Thirumalai Chemicals Limited,
25 - B SIPCOT Industrial Complex,
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Phone : + 91 - 04172 - 244441 / 244442 / 244446
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2. Composition /Information on ingredients

Chemical Name : Succinic Anhydride
Chemical Formula : C₄H₄O₃
Molecular Weight : 100.07
CAS No. : 108-30-5
EINECS No. : 203-570-0
Synonyms : Dihydro-2,5-Furandione, Succinyloxide

3. Hazard Identification

Hazard Symbol : Xi - Irritant
Risk Phrases : R36/37/38 Irritating to eyes, respiratory system and skin
S-phrases : S26 Avoid contact with eyes.

4. First Aid Measures

General advice : Treat symptomatically and supportively.
Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
Consult a physician.
Skin contact : Remove contaminated clothing.
Wash the skin with soap and plenty of water.
Ingestion : Clean mouth with water. Drink plenty of water.
Do not induce vomiting. Call a physician immediately.
Inhalation : Move victim to fresh air at once. Consult a physician

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5. Fire Fighting Measures

- Special hazards : Combustible material. Sublimes at 115⁰C at 5 mm pressure.
- General Information : As in any fire, wear a self-contained breathing apparatus in pressure-demand, and full protective gear. During fire highly toxic gasses may be generated by thermal decomposition or combustion.
- Extinguishing agents : Water spray, dry chemical, chemical foam / alcohol resistant foam
- Protective equipment : In case of fire, wear self contained breathing apparatus and chemical protection suit.
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6. Accidental Release Measures

- Personal precautions : Ensure adequate ventilation. Use personal protective clothes and equipment.
- Environmental precautions : Do not allow material to contaminate ground water system.
- Methods for cleaning up : Use mechanical handling equipment and place into a suitable disposal container. Dispose of in compliance with local and national regulations.
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7. Handling and Storage

- Handling : Avoid breathing dust, vapour, mist or gas. Avoid contact with skin eyes and clothing. Wash thoroughly after handling.
- Storage : Store in cool, dry place. Store in a tightly closed container.
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8. Exposure Controls / Personal Protection

- National Occupational exposure limit : None listed in ACGIH, NIOSH, OSHA
- Engineering Control : Use process enclosure, adequate general or local ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

- Respiratory : Self contained breathing apparatus
- Eye : Closely fitted Safety goggles.
- Hand : Impervious Gloves
- Skin and body : Approved work boots, protective clothing
- Hygiene measures : Wash hands before food and at the end of workday.
- Other devices : Maintain eye wash facility in work area

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9. Physical and Chemical Properties

Form	: Solid
Colour	: White
Odour	: Odourless
Melting point	: 119-120 ⁰ C
Boiling point	: 261 ⁰ C @ 760mm Hg
Flash- point	: Not available
Ignition temperature	: 380 ⁰ C Method: DIN 51794
Vapour pressure	: 1 mm Hg @ 92 ⁰ C
Vapour Density	: 3.7 (air=1)
Specific Gravity	: 1.50 (H ₂ O = 1)
Solubility	: Negligible (< 0.1%)
pH - value	: Not available

10. Stability and Reactivity

Stability	: Stable under normal temperatures and pressure
Materials to avoid	: Incompatible materials, Strong oxidants.
Incompatibles	: Bases, oxidizing agents, alcohol, moist air or water
Hazardous decomposition products	: Carbon monoxide, Carbon dioxide

11. Toxicological Information

Acute toxicity (lethal doses) (Literature value)

LD50/oral/ rat dose	: 1510 mg/kg
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12. Ecological information

Ecotoxicity	: Not available
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13. Disposal Consideration

Dispose of in a manner consistent with federal, state and local regulation

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14. Transport Information

IMO/IATA/RID/ADR : Not regulated as a hazardous material

15. Regulatory Information

The product is classified and labelled according to EEC directive on classification of hazardous preparations 90/492/EEC

OSHA : None of the chemicals in this product is considered highly hazardous
Hazard Symbol : Xi Irritant
Risk phrases : R36/37/38 Irritating to eyes, respiratory system and skin
S-phrases : S26 Avoid contact with eyes.

16. Other Information

The information provided in this Safety Data Sheet is given in good faith and is correct to the best of our knowledge and information at the date of publication. It is designed only as guidance for safe handling, storage, transportation, use and disposal. No warranty is expressed or implied.

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