



中国认可
检验
INSPECTION
CNAS IB0071



NO.262580300136

SAFETY DATA SHEET

Product Name: Methyl tetrahydrophthalic anhydride

Effective Date: 2025-03-21

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Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.



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Zhejiang Heyi Chemical Co., Ltd

SAFETY DATA SHEET

Methyl tetrahydrophthalic anhydride

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Methyl tetrahydrophthalic anhydride
Company: Zhejiang Heyi Chemical Co., Ltd
Address: No. 9 Lingxiu Road, Modern Industrial Agglomeration Zone,
Fuying Street, Xianju County, Zhejiang Province, 317300,
P.R. China
E-mail: 709768175@qq.com
Fax: 0576-87700510
Emergency Phone: 0576-87825866
Recommend use of the chemical and restrictions on use: Used as a curing agent for epoxy resin. Prohibited for food use.
SDS Number: 262580300136
Effective Date: 2025-03-21

SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Not Classified

Health Hazards:

Acute toxicity - Oral Category 5
Acute toxicity - Dermal Category 4
Serious eye damage/eye irritation Category 1
Respiratory sensitization Category 1
Skin sensitization Category 1

Environmental Hazards:

Classification not possible

The hazards not mentioned are not applicable or no data available.

Label Elements:**Pictogram:****Signal Word:**

Danger

Hazard Statements:

- H303 May be harmful if swallowed.
- H312 Harmful in contact with skin.
- H318 Causes serious eye damage.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.

Prevention Precautionary Statements:

- P280 Wear protective gloves/ protective clothing /eye protection /face protection.
- P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
- P233 Keep container tightly closed.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P271 Use only outdoors or with adequate ventilation.
- P284 In case of inadequate ventilation wear respiratory protection.
- P272 Contaminated work clothing should not be allowed out of the workplace.

Response Precautionary Statements:

- P301+P317 IF SWALLOWED: Get medical help.
- P302+P352 If ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.
- P333+P317 If skin irritation or rash occurs: Get medical help.

Storage Precautionary Statements:

- P403 Store in a well-ventilated place.

Disposal Precautionary Statements:

- P501 Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Other Hazards:

No data available.

SECTION3 INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Product name: Methyl tetrahydrophthalic anhydride

Ingredient	Concentration(%)	CAS NO.	EC NO.
Methyl tetrahydrophthalic anhydride and isomers	100%	11070-44-3	247-830-1

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of skin contact, flush with copious amounts of water. If skin irritation or rash occurs, Call a physician.

Eye Exposure:

In case of contacting with eyes, immediately flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician immediately.

Inhalation Exposure:

If inhaled, remove to fresh air immediately. If experiencing respiratory symptoms: Get emergency medical help immediately.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, Dry chemical, Carbon dioxide or Suitable foam.

Specific Hazards Arising from the Chemical:

Take care as it may decompose upon combustion or in high temperatures to generate Carbon oxides.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid inhalation. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains.

Methods and Materials for Containment and Cleaning up:

Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Avoid inhalation. Ventilate area and wash spill site after material pickup is complete.

SECTION7 HANDLING AND STORAGE

Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves(see Section 8). Avoid inhalation. Avoid contacting with eyes and skin. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Wash hands and face thoroughly after operation. Avoid contact with incompatible materials(see Section 10). Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Should be stored separately from incompatible materials(see Section 10). Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameters:

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1:

Not set up

ACGIH:

Methyl tetrahydrophthalic anhydride and isomers: TLV-TWA 0.00007ppm(0.0005mg/m³) TLV-STEL 0.0003ppm(0.002mg/m³) Remarks :Skin;DSEN;RSEN

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection:Wear compatible protective gloves.

Body Protection:Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Colorless transparent Liquid
Odor:	Weak odor
pH Value:	No data available
Solubility:	immiscible in water
Melting Point/Freezing Point:	No data available
Boiling Point, Initial Boiling Point and Boiling Range :	No data available
Flash Point (Closed Cup):	>96.0°C
Density/Relative Density :	No data available
Kinematic Viscosity:	No data available
Upper/Lower Flammability or Explosive Limits:	No data available
Vapour Pressure:	No data available
Relative Vapor Density:	No data available
Partition Coefficient N-Octanol/Water (Log Value):	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Particle Characteristics:	Not applicable
Flammability (Solid, Gas):	Not applicable

SECTION10 STABILITY AND REACTIVITY**Reactivity:**

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

No data available.

Incompatible Materials:

No data available.

Hazardous Decomposition Products:

Carbon oxides.

SECTION11 TOXICOLOGICAL INFORMATION**Acute Toxicity:**

Methyl tetrahydrophthalic anhydride and isomers:

LD₅₀ Oral - Rat - 2140 uL/kg (RTECS)

LD₅₀ Oral - Rabbit - 1410 uL/kg (RTECS)

Harmful in contact with skin. May be harmful if swallowed.

Skin Corrosion/Irritation:

No data available.

Serious Eye Damage/Irritation:

Causes serious eye damage.

Respiratory Sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sensitization:

May cause an allergic skin reaction.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION**Toxicity:**

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION**Disposal Methods:**

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR (2023 Edition): The product is not subject to RID/ADR.
IATA DGR (66th Edition): The product is not subject to IATA DGR.
IMO IMDG CODE (2022 Edition): The product is not subject to IMO IMDG CODE.

Environmental Hazards: No
Special Precautions for User: No data available.
Transport in bulk according to IMO instruments: Not applicable

SECTION15 REGULATORY INFORMATION**Montreal Protocol:**

Not listed.

Stockholm Convention:

Not listed.

Rotterdam Convention:

Not listed.

EINECS/ELINCS:

Listed.

TSCA:

Listed.

IECSC:

Listed.

SECTION16 OTHER INFORMATION**Preparation Date:**

2025-03-21

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.

Tel(Fax): +86-21-52815377/31765555

Revision:

0

Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 10th revised edition

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission ACGIH: American Conference of Governmental Industrial Hygienists RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: Agreement concerning the International Carriage of Dangerous Goods by Road IATA DGR: International Air Transport Association Dangerous Goods Regulations IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code MARPOL: International Convention for the Prevention of Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China TLV-TWA: Threshold limit value-time weighted average TLV-STEL: Threshold limit value-short term exposure limit Skin: The substance causes systemic effects through entire skin absorption LD₅₀: Lethal dose, 50% RTECS: Registry of Toxic Effects of Chemical Substances DSEN: May cause dermal sensitization. RSEN: May cause respiratory sensitization

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

END OF REPORT