



SAFETY DATA SHEET

Version 4.0 Issued Date: 06.19.2015

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifiers

Product name: Methyltetrahydrophthalic anhydride
Product No.: B1005
Brand: HC
CAS No.: 11070-44-3
Registration No.: 01-2119488054-36-0004

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

Identified uses: Hardeners of epoxy resins

1.3 Details of the supplier of the safety data sheet

Company: PUYANG HUICHENG ELECTRONIC MATERIAL CO., LTD.
Shengli West Road
Puyang, Henan, China 457001
Telephone: +86 393 8910800
Fax: +86 393 8912775
E-mail: info@huichengchem.com
Website: www.huichengchem.com

1.4 Emergency telephone number

Emergency Phone: +86-3938917569

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage(Category 1)

Respiratory sensitization(Category 1)

Skin sensitization(Category 1)

2.2 GHS Label elements, precautionary statements



Pictogram:

Signal word: Danger

Hazard statement(s):

H318: Causes serious eye damage.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

Precautionary statement(s):

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 - IF ON SKIN: Wash with plenty of 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: 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/doctor

2.3 Other hazards None



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3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substance**

Common Name: Methyltetrahydrophthalic anhydride
Synonyms: MTHPA; Tetrahydromethy-1,3-isobenzofurandione;
Tetrahydromethylphthalic anhydride;1,2,3,6-Tetrahydromethylphthalic anhydride.
Formula: C₉H₁₀O₃
Molecular Weight: 166.17g/mol

Components	Concentration(% wt)
Methyltetrahydrophthalic anhydride	
CAS No.: 11070-44-3 EC No.: 234-290-7	≤100.0%

Remark: The rest unspecified ingredients are impurities which do not contribute to the classification of the substance.

4. FIRST-AID MEASURES**4.1 Description of first aid measures****General advice**

Consult a doctor. Show this safety data sheet to the doctor in attendance.

If inhaled

If inhaled, move person into fresh air. Refer for medical attention.

In case of skin contact

Wash off with soap and plenty of water while removing contaminated clothing and shoes. Consult a doctor. Wash clothing before reuse.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry powder or CO₂.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

5.4 Further information

No data available.



6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respirator when performing operation involving potential exposure to vapour of the product.

6.2 Environmental precautions

Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Collect and dispose the leakage, keep in suitable, closed containers for disposal.

6.4 Reference to other sections

No data available.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wear protective gloves and clothing. Provide sufficient air exchange and/or exhaust in work rooms.

Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, dry and well-ventilated place away from heat or direct sunlight. Remove all sources of ignition.

7.3 Specific end uses

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Maximal allowable concentration

No data available.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Mechanical exhaust required.

Personal protective equipment

Eye/face protection

Face shield and safety glasses used for face / eye protection.

Skin and body protection

Use proper glove to avoid skin contact with this product. Wear protective clothing

Respiratory protection

Use respirator when performing operations involving potential exposure to vapor or particulates of the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: Form: liquid

Colour: colorless or light yellow

b) Odor: faint odor

c) pH: no data available



- d) Melting point/freezing point: $\cong -15\text{ }^{\circ}\text{C}$
- e) Initial boiling point and boiling range: $295.3\text{ }^{\circ}\text{C}$ (1013hPa) --lit.
- f) Upper/lower flammability or explosive limits: no data available
- g) Vapour pressure: no data available
- h) Vapour density: no data available
- i) Relative density: $1.20 \pm 0.005(25\text{ }^{\circ}\text{C})$
- j) Water solubility: no data available
- k) Partition coefficient: n-octanol/water: no data available
- l) Autoignition temperature: no data available
- m) Viscosity: 30~70mPa.S at $25\text{ }^{\circ}\text{C}$
- n) Decomposition temperature: no data available
- o) Flash point: $164\text{ }^{\circ}\text{C}$ (1003hPa)

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known.

10.2 Chemical stability

Stable under the recommended conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Overheat.

10.5 Incompatible materials

Strong oxidizing agents, strong bases.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 > 2000 mg/kg bw

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

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

Additional Information

None

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

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

None.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Disposed as unused product.

14. TRANSPORT INFORMATION

This product is not a hazardous substance.

14.1 UN number

Not regulated as hazardous goods.

14.2 UN proper shipping name

Not regulated as hazardous goods.

14.3 Transport hazard class(es)

Not regulated as hazardous goods.

14.4 Packaging group

Not regulated as hazardous goods.

14.5 Environmental hazards



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ADR/RID: No IMDG: - IATA: -No
Marine Pollutant(Yes/No): No

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

No information available.

15. REGULATORY INFORMATION

This safety data sheet complies with the requirements of local laws and regulations.

15.1 Safety, health and environmental regulations/legislation specific for the substance

International Inventory:

EINECS/ ELINCS: --listed

USA/TSCA: --listed

China/IECSC: --listed

Japan/ENCS: --listed

Korea/KECI: --listed

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

Revision Information

Revision Date: 09 June, 2015; Revision Number: 4.0

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. Puyang Huicheng Electronic Material Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.
