



SAFETY DATA SHEET

Version 4.0 Issued Date: 06.20.2015

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifiers

Product name: Hexahydrophthalic anhydride
Product No.: B1008
Brand: HC
CAS No.: [85-42-7]
REACH Reg. No.: 01-2119486666-21-0004

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

Identified uses: Hardeners for epoxy resins; Intermediates.

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

1.3 Emergency telephone number

Emergency Phone: +86-393-8917569

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

GHS 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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards

None



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

Common Name: Hexahydrophthalic anhydride
Synonyms: Cyclohexane-1,2-dicarboxylic anhydride; HHPA.
Formula: C₈H₁₀O₃
Molecular Weight: 154.16g/mol

Component	Concentration(%)
Hexahydrophthalic anhydride	
CAS-No.: 85-42-7 EINECS No.: 201-604-9	≥99.0% (GC)

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 physician. Show this safety data sheet to the doctor in attendance.

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water. Consult a surgeon.

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

Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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 chemical or carbon dioxide.

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 personal protective equipment. Avoid forming dust. Avoid breathing vapors, mist or gas. Ensure adequate



ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Collect and sweep up, avoid forming dust. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal, please refer to section-13 **DISPOSAL CONSIDERATIONS**.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid forming dust and aerosol. In places where dust is formed, provide proper ventilation equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end uses

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Maximal allowable concentration

No corresponding exposure limit stipulated by the related state.

8.2 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

Skin protection

Wear suitable protective gloves.

Eye/face protection

Wear safe glasses with protective cover side.

Skin and body protection

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

Respiratory protection

If exposed to the harmful environment, use respirators and components tested and approved under appropriate government.

Other protection

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: Form: crystalline powder or solid



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Color: white

Hazen: ≤50

- b) Odour: weak odor
- c) pH: no data available
- d) Melting point/freezing point: 34-38 °C
- e) Initial boiling point and boiling range: no data available
- f) Upper/lower flammability or explosive limits: no data available
- g) Vapour pressure: no data available
- h) Vapour density: 1.19 g/cm³ at 40 °C --lit.
- i) Relative density: no data available
- j) Water solubility: no data available
- k) Partition coefficient: n- octanol/water: no data available
- l) Autoignition temperature: no data available
- m) Decomposition temperature: no data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under the recommended conditions of use.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Overheat.

10.5 Incompatible materials

Strong oxidizer; Strong acid; Strong base; alkali metals.

10.6 Hazardous decomposition products

Other decomposition products - no data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral, LD50 : 4040 mg/kg bw (rat);

Inhalation, LC50: > 1100 mg/m³(rat).

Dermal, LD50: > 2000 mg/kg bw (rabbit);

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization



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

May cause an allergic skin reaction.

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.

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

Signs and Symptoms of Exposure

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

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

No data available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Disposal must be made according to local and national regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.



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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

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

EINECS: CAS 85-42-7 is listed in.

Other Inventory:

USA/TSCA --listed

Canada/DSL --listed

Australia/AICS --listed

Korea/ECL --listed

Japan/ENCS --listed

China/IECSC --listed

15.2 Chemical Safety Assessment

No data available

16. OTHER INFORMATION

Revision Information

Revision Date: 10 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.
