



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: Nadic anhydride

Product No.: A1001

Brand: HC

CAS No.: [826-62-0]

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

Identified uses: Laboratory chemicals, Manufacture of substances

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: +86-393-8917569

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

GHS Classification

Serious eye damage (Category 1)

Respiratory sensitisation (Category 1)

Skin sensitisation (Category 1)

2.2 GHS Label elements, precautionary statements



Pictogram:

Signal word: Danger

Hazard statement(s)

H317 May cause allergy skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptom or breathing difficulties if inhaled.

Precautionary statement(s)

P261 Avoid breathing dust.

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

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.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards -None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances



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Common Name: Nadic anhydride
Synonyms: Himic anhydride; 5-Norbornene-2,3-dicarboxylic anhydride; NA;
Endomethylenetetrahydrophthalic anhydride;
3,6-Endomethylene-1,2,3,6-Tetrahydrophthalic Anhydride;
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride.
Formula: C₉H₈O₃
Molecular Weight: 164.16g/mol

Component	Concentration(% total by GC)
Nadic anhydride	
CAS No. 826-62-0 EC-No. 212-557-9	≥ 98.0%

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. Move out of dangerous area.

If inhaled

If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor.

In case of skin contact

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

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

The most important known symptoms and effects are described in **Section 11**

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 dust formation. 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 dispose the leakage, 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. At places where dust is formed, provide proper ventilation equipment.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end uses

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

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

Hands protection

Wear suitable protective gloves.

Eye/face protection

Wear protective respirator and safe glasses.

Skin and body protection

Wear protective clothing. 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

None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: Form: powder



Color: white

- b) Odour: slight odor
- c) pH: no data available
- d) Melting point/freezing point: 162-165 °C – lit.
- 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: no data available
- i) Relative density: 1.417 g/mL
- 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 recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Strong oxidizer.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon oxides

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

May cause allergic respiratory and skin irritation.



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

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Disposed as unused product.

14. TRANSPORT INFORMATION



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

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

REACH ---listed

TSCA ---Listed

IECSC ---listed

15.2 Chemical Safety Assessment

No data available

16. OTHER INFORMATION

Revision Information

Revision Date: 16 June 2015; Revision Number: 4.0

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. 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.
