

**1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY****1.1 Product identifiers**

**Product name:** 4, 4'-Isopropylidenedicyclohexanol (HBPA)  
**Brand:** HC  
**Product No:** C0046  
**CAS No.:** 80-04-6  
**REACH Reg. No.:** \*\*\_\*\*\*\*\*\_\*\*\_\*\*\*\*

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

Identified uses: Used for resins manufacture and other intermediates.

**1.3 Details of the supplier of the safety data sheet**

**Company:** PUYANG HUICHENG ELECTRONIC MATERIAL CO., LTD.  
30 West Shengli Road  
Puyang, Henan, China 457001  
**Telephone:** +86 393 8917710  
**Fax:** +86 393 8948232  
**E-mail:** services@huichengchem.com  
**Website:** www.huichengchem.com

**1.4 Emergency telephone number**

**Emergency Phone:** +86-393-8910357

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**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS classifications:**

**Physical Hazards:** Not classified  
**Health Hazards:** Not classified

**Environmental Hazards:**

Hazardous to the aquatic environment, long-term (Chronic 3)

**2.2 GHS label elements, including precautionary statements**

Pictograms or hazard symbols: none  
Signal word: no signal word

**Hazard statements**

H412: Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

P264: Wash hands thoroughly after handling.  
P273: Avoid release to the environment.  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

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

**Common Name:** 4, 4'-Isopropylidenedicyclohexanol  
**Synonyms:** 2, 2-Bis-4-hydroxy-4-cyclohexylpropane; Hydrogenerated bisphenol- A; HBPA.  
**Formula:** C<sub>15</sub>H<sub>28</sub>O<sub>2</sub>  
**Molecular Weight:** 240.38g/mol  
**CAS No.:** 80-04-6  
**EINECS No.:** 201-244-2  
**Assay/Purity:** ≥95.0% (GC)

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

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substance.

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#### **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 breathed in, move person into fresh air. If not breathing, give artificial respiration. Get immediate medical attention.

###### **In case of skin contact**

Wash off with soap and plenty of water.

###### **In case of eye contact**

Immediately flush eyes with large amounts of water for 15 min. Contact a physician.

###### **If swallowed**

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

##### **4.2 Most important symptoms and effects, acute and delayed**

The most important known symptoms and effects are described in the labeling (see **Section 2**) and/or in **Section 11**.

##### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

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#### **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.

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#### **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.

##### **6.2 Environmental precautions**

Do not let product enter drains. Discharge into the environment must be avoided.

##### **6.3 Methods and materials for containment and cleaning up**

Collect and sweep up, avoid forming dust. Keep in suitable, closed containers for disposal according to local / national regulations (see Section 13).

##### **6.4 Reference to other sections**

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

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in a dry, cool and well-ventilated place. Remove all sources of ignition.

### 7.3 Specific end uses

No data available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

4,4'-isopropylidenedicyclohexanol (80-04-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	40 mg/kg body weight/day
Acute - systemic effects, inhalation	280 mg/m <sup>3</sup>
Acute - local effects, dermal	0.4 mg/cm <sup>2</sup>
Acute - local effects, inhalation	280 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	1 mg/kg body weight/day
Long-term - local effects, dermal	0.01 mg/cm <sup>2</sup>
Long-term - systemic effects, inhalation	7 mg/m <sup>3</sup>
Long-term - local effects, inhalation	7 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	20 mg/kg body weight
Acute - systemic effects, inhalation	140 mg/m <sup>3</sup>
Acute - systemic effects, oral	20 mg/kg body weight
Acute - local effects, dermal	0.2 mg/cm <sup>2</sup>
Acute - local effects, inhalation	140 mg/m <sup>3</sup>
Long-term - systemic effects, oral	0.5 mg/kg body weight/day
Long-term - systemic effects, inhalation	3.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0.5 mg/kg bw/day
Long-term - local effects, dermal	0.005 mg/cm <sup>2</sup>



4,4'-isopropylidenedicyclohexanol (80-04-6)	
Long-term - local effects, inhalation	3.5 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0.019 mg/l
PNEC aqua (marine water)	0.0019 mg/l
PNEC aqua (intermittent)	0.19 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.334 mg/kg dwt
PNEC sediment (marine water)	0.0334 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0492 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

## 8.2 Appropriate engineering controls

General industrial hygiene practice.

## 8.3 Personal protective equipment

### Eye/face protection

Safety glasses and face shield use equipment for eye and face protection tested and approved under appropriate government standards

### Skin protection

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body protection

Lab suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Use respirators and components tested and approved under appropriate government standards.

### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- Physical state: solid
- Color: white
- Odour: no data available
- Melting point/freezing point: no data available
- Boiling point or initial boiling point and boiling range: no data available



- f) Flammability : no data available
- j) Lower/upper explosion limit/flammability limit : no data available
- h) Flash point: no data available
- i) Auto-ignition temperature: > 400 °C
- j) Decomposition temperature: > 280 ° C
- k) pH: No data available
- l) Viscosity: no data available
- m) Solubility: no data available
- n) Partition coefficient: n- octanol/water: no data available
- o) Vapour pressure: no data available
- p) Density and / or relative density: no data available
- q) Relative vapour density: no data available
- r) Particle characteristics: 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**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents; strong bases.

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available

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## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD<sub>50</sub>(rat): oral >2000mg/kg

LD<sub>50</sub>(rat): dermal >2000mg/kg

#### **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**



There are no known carcinogenic chemicals in this product at present level greater than or equal to 0.1% identified as probable, possible or confirmed human carcinogen.

**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**

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

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

4,4'-isopropylidenedicyclohexanol (80-04-6)	
LC50 fish	19 mg/l (Exposure time: 96 h - Species: Oryzias latipes [semi-static])
EC50 Daphnia	31 mg/l Species: (Exposure time: 48 h-Daphnia magna[semi-static])
EC50 72h algae	82 mg/l Species: Pseudokirchnerella subcapitata [Static]

**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**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6 Other adverse effects**

No data available.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Dispose of in accordance with local regulations. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Disposed as unused product.

