



# SAFETY DATA SHEET

Revision date 16-July-2020

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

CAS No. 12008-29-6  
Product Name SILICON HEXABORIDE  
Molecular Formula SiB6

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

Recommended use Laboratory chemicals, Manufacture of substances

### Details of the supplier

Company name Hunan Huawei Jingcheng Material Technology Co., Ltd.  
Address Room 516, Hunan International Business Center, Jintai Plaza,  
East Second Ring, Furong District, Changsha City, Hunan  
Province, China.  
Website www.hnjc-metal.com  
Telephone 0086-731-85124338

### Emergency telephone number

0086-731-85124338

## Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS-US classification

Not classified

Label elements

GHS-US labeling

No labeling applicable

Hazards not otherwise classified (HNOC)

No additional information available

Unknown acute toxicity (GHS US)

No data available

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances

CAS No.:12008-29-6

Description: SILICON HEXABORIDE

## **Section 4: FIRST AID MEASURES**

### **Description of first aid measures**

#### First-aid measures general

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

#### First-aid measures after inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

#### First-aid measures after skin contact

Wash with plenty of soap and water. Get medical advice/attention.

#### First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

#### First-aid measures after ingestion :

Never give anything by mouth to an unconscious person. Get medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

##### Symptoms/injuries after inhalation :

May cause irritation to the respiratory tract.

##### Symptoms/injuries after skin contact :

May cause skin irritation.

##### Symptoms/injuries after eye contact :

May cause eye irritation.

Symptoms/injuries after ingestion : No information available.

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

No additional information available

## **Section 5: FIRE FIGHTING MEASURES**

#### Extinguishing media

Suitable extinguishing media : Not combustible.

Unsuitable extinguishing media : None known.

#### Special hazards arising from the substance or mixture

Fire hazard : None known.

#### Advice for firefighters

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

#### 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. For personal protection see section 8.

#### Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Sweep up and shovel.

Keep in suitable, closed containers for disposal.

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

## **Section 7: HANDLING AND STORAGE**

### 7.1. Precautions for safe handling

Additional hazards when processed : While not flammable, the ability of particles to generate static charge may present a hazard when used in combination with flammable liquids.

Precautions for safe handling : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide

Local exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions : Keep container tightly closed.

Incompatible materials : None known.

Storage area : Store in a well-ventilated place. Store away from heat.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Safety glasses. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder.

Molecular mass : 92.95 g/mol

Color : Dark gray.

Odor : No data available

Odor threshold : No data available

Refractive index : No data available

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 1950 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Not combustible

Vapor pressure : < 0.01 mm Hg @ 20°C

Relative vapor density at 20 °C : No data available

Relative density : 2.43

VOC content : 100 %

Solubility : Insoluble in water.

Log Pow : No data available

Log Kow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Explosion limits : No data available

### 9.2. Other information

No additional information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

None known.

### **Section 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : No information available.

### **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

### **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Landfill. Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **Section 14: TRANSPORT INFORMATION**

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

### **Section 15: REGULATORY INFORMATION**

#### 15.1. US Federal regulations

Silicon hexaboride (12008-29-6)

Hunan Huawei Jingcheng Material Technology Co., Ltd. [www.hnjc-metal.com](http://www.hnjc-metal.com)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Silicon hexaboride (12008-29-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

Silicon hexaboride (12008-29-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Silicon hexaboride (12008-29-6)

Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

No additional information available

## **Section 16: OTHER INFORMATION**

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

**HUAWEI MATERIAL**

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