



安徽艾约塔硅油有限公司

Iota Silicone Oil(Anhui) Co.,Ltd.

安徽省蚌埠市高新区兴中路 985 号日月科技园

Sunmoon industry park, 985 Xingzhong Road, Bengbu, China 233000

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Revision Date: 2018/08/15

Hydrophobic fumed silica

SECTION 1: Identification

1.1. Identification

Product form : Substance

Trade name : Hydrophobic fumed silica

Product Model : HB-4132, HB-4135, HB-4139, HB-4151, HB-4152, HB-4615, HB-4620, HB-4630,

Chemical name : Silica, amorphous

CAS No. : 7631-86-9

Product description: High purity amorphous silica with higher than 99.8% silica content

1.2. Recommended use and restrictions on use

Recommended use : Application: Raw material for industrial use, especially used in the production of silicone rubber, for thickening, thyrotrophic effect.

Restrictions on use : No information available

1.3. Supplier

IOTA SILICONE OIL(ANHUI) CO, LTD.

SUNMOON SCIENCE PARK, 985 XINGZHONG ROAD, HIGH-TECH ZONE, BENGBU, CHINA
233000

T 0086 552 3827158 - F 0086 20 82519070

sales@siliconeoil.net

www.siliconeoil.net

1.4. Emergency telephone number

Emergency number : 0086 552 3827158

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Classification according to Regulation 29CFR 1910.1200

Not classified

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2.2. GHS Label elements, including precautionary statements

GHS-US labelling

Statutory basis: Classification according to Regulation 29CFR 1910.1200

No labelling applicable

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification: No information available.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
Silica, amorphous	(CAS-No.) 7631-86-9	>= 99.8
The others		<= 0.2

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If symptoms persist, call a physician.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : No information available.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

Unsuitable extinguishing media : No information available.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid dust formation.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers. Avoid dust formation.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid the build-up of electrostatic charge.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Silica, amorphous (7631-86-9)		
IDLH	US IDLH (mg/m ³)	3000 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³

Water (7732-18-5)

Not applicable

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8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Use impermeable gloves.

Eye protection:

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin and body protection:

Wear suitable protective clothing A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Respiratory protection:

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before re-use.

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Protective measures

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : White powder

Colour : No data available

Odour : No data available

Odour threshold : No data available

pH : 3.7-4.5 (4% Aqueous solution)

pH solution : No data available

Melting point :

1650 (± 75) °C

Freezing point : No data available

Boiling point :

2230 °C

Critical temperature : No data available

Critical pressure : No data available

Flash point : No data available

Relative evaporation rate (butylacetate=1) : No data available

Relative evaporation rate (ether=1) : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Vapour pressure at 50 °C : No data available

Relative vapour density at 20 °C : No data available

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Relative density : No data available

Relative density of saturated gas/air mixture : No data available

Density : 2.2 g/cm³

Relative gas density : No data available

Solubility : Water: 0.12 g/l

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
(According to HCS-2012 APPENDIX D TO §1910.1200)

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive limits : No data available

Explosive properties : No data available.

Oxidising properties : No data available.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Silica, amorphous (7631-86-9)	
LD50 oral rat	5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.2 mg/l (Exposure time: 1 h)

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg

Skin corrosion/irritation : Not classified

pH: No data available

Rabbit

not irritating

Method: OECD Guideline 404

Based on available data, the classification criteria are not met.

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Serious eye damage/irritation : Not classified

pH: No data available

Rabbit

not irritating

Method: OECD Guideline 404

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

No evidence of mutagenic effects

Carcinogenicity : Not classified

No evidence that cancer may be caused.

Silica, amorphous (7631-86-9)	
IARC group	3 - Not classifiable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Acute toxicity (fish) > 10,000 mg/l (Brachydanio rerio) ECO (96 hours)

Acute toxicity (daphnia) > 10,000 mg/l Daphnia magna ECO (24 hours)

Silica, amorphous (7631-86-9)	
LC50 fish 1	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia 1	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)

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12.2. Persistence and degradability

Hydrophilic fumed silica	
Persistence and degradability	No information available.

12.3. Bioaccumulative potential

Hydrophilic fumed silica	
Log Pow	No data available
Log Kow	No data available
Bioaccumulative potential	No information available

Silica, amorphous (7631-86-9)	
BCF fish 1	(no bioaccumulation expected)

12.4. Mobility in soil

Hydrophilic fumed silica	
Ecology - soil	No information available.

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with federal, state and local regulations.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Silica, amorphous (7631-86-9)

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

Water (7732-18-5)

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

15.2. International regulations

CANADA

Silica, amorphous (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

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Silica, amorphous (7631-86-9)

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

Water (7732-18-5)

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

National regulations

Silica, amorphous (7631-86-9)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Water (7732-18-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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15.3. US State regulations

No additional information available

SECTION 16: Other information

Data sources : LOLI.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

SDS US (GHS HazCom 2012) 20170728