

Safety Data Sheet (SDS)

This MSDS valid for our hydrophobic fumed silica of HB-139

1. Identification of the substance/ preparation and the company

	Chinese name	疏水型气相二氧化硅·疏水型气相法白炭黑	
Name of product	English name	Hydrophobic fumed silica	
Chemical name	Chemical name Silicon dioxide (SiO ₂) molecular weight 60.08		60.08
(CAS Number	(67762-90-7
Product description	High purity amorphous silica	with higher than 99.8 wt% sil	ica content
REACH Reg. No.	/		
Use of the product	plastics and resins to act as a re And used as a free flow aids in	Fumed silica is mainly used in sealants, paints, coatings and some other polymers such as rubbers, plastics and resins to act as a reinforcement, thickening, anti-setting and rheology agent. And used as a free flow aids in the powder system such as food, pharmacy, fertilizer and extinguisher etc. Used as additives in cosmetics, defamers, thermal insulation materials etc.	
Use advised against	No uses advised against		
Manufacturer	Hubei Huifu Nanomaterial Co., Ltd. No .66-2, Xiaoting avenue, Xiaoting district, Yichang city, Hubei province, China Phone: 86-20-89850560, FAX: 86-20-82519070 Internet: www.hifull.com Email: Hifull@hifull.com		
For Emergencies	TEL: 86-20-89850560 FAX:86-20-82519070 ,Email: Hifull@hifull.com		
. Hazards identifica	Hazards identification		
Classification of the substance	This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No1272/2008[CLP] on classification, labeling and packaging of substances and mixtures.		
Label	No label information available. The product is not classified as hazardous under Regulation(EC) No 1272/2008[CLP/GHS]		
Route of entry or possible contact	Inhalation, Eyes contact, Skin contact		
Acute health effects	Eye contact: No acute toxic effects are expected. Slight irritation by mechanical effects is possible. Skin contact: No acute toxic effects are expected. Temporary discomfort like feeling of dryness on the skin. Inhalation: No acute toxic effects are expected. May cause physical discomfort to the respiratory tract.		

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Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can
lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic
respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory
processes) were reversible; no indication of silicosis. Animal tests have shown no indication to
carcinogenic or to reproduction effects.

3. Composition/information on ingredients

CAS NO.	67762-90-7	
Chemical characteristics	Pyrogenic micro-dispersed silica surface modified by organosilicon, synthetic X-ray amorphous silicon dioxide (SiO ₂)	
Appearance	White solid - powder · odorless	
Molecular formula	SiO ₂	
Purity (wt%)	>99.8%	

* This substance is also known as Silica, amorphous, fumed, crystalline free, CAS No. 112945-52-5.

4. First-aid measures

In all cases of doubt, or when symptoms persist, seek medical attention.		
Eye Contact	Flush eyes with plenty of water immediately · get medical attention if symptoms occurring.	
Skin Contact	kin Contact Wash skin with plenty of water or with water and soap.	
Swallowing	Drink plenty of water. Get medical attention if symptoms occurring.	
Inhalation Remove to fresh air. Get medical attention if symptoms occurring.		

5. Fire-fighting measures

Combustibility	Noncombustible material, but the package of the product may cause combustion risk	
	The material is noncombustible substance, while electrostatic charging is possible in using.	
Fire and explosion hazards	Ensure all parts of equipment are well earthed. Use inert gas when working with	
	combustible and explosive liquids.	
	No limitations of extinguishing agents are given. Use extinguishing measures appropriate to	
Extinguishing agent	the source of fire.	
	Wear full protective clothing including a self-contained breathing apparatus for firefighting if	
Advice for fire-fighters	necessary.	

6. Accidental release measures

Precautions	Avoid dust formation. Do not breathe dust. Cover any spilled material in accordance with regulations to prevent dispersal by wind.	
Environmental precautions Avoid dust formation and release directly. Deal with the dust in accordance with the local related re		
Methods for cleaning up	Clean up promptly by vacuum and fill into containers.	

7. Handling and storage

Precautions for safe handling	Do not leave container open. Sufficient ventilation must be guaranteed for refilling, transfer, or open use. Avoid the formation of dust. Avoid contacting with the skin and the eyes.
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Precautions for storage	Keep container dry and tightly closed. Avoid dust deposit. Electrostatic discharge possible				
_	during transport and processing. Take precautionary measures against electrostatic charging.				
Specific end uses	Apart from the uses mentioned in section 1(use of the product), it may be used in some other				
	field as an additives.				
B. Exposure controls and p					
		China MAC (mg/m3)		2mg/m ³	
Occupational exposure limit values			-	10mg/m ³	
	The USATLV-STEL	The USATLV-STEL		3mg/m ³	
Exposure controls	Use only with adequate	-	haust ventilation to m	aintain airborne	
	concentration below TLV.				
Respiratory protection	A NIOSH approved par	ticulate respirator v	with a P95 or higher ra	ating.	
Eye protection		Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).			
	Avoid to contact with	skin directly. Wea	r antistatic clothes a	nd boot. Handle with gloves.	
Skin protection	-	Dispose of contaminated gloves after use in accordance with applicable laws and good			
	laboratory practices. Wash and dry hands. Barrier cream may be used to prevent dryness of skin.				
Environmental exposure controls	Do not allow material	Do not allow material to be released to the environment without the proper governmental			
	permits.	permits.			
Industry hygiene	General industrial hygiene practice.				
). Physical and chemical p	roperties				
Melting point (°C)	~1700	Boiling point (°	C)	~2300	
Flash Point	No data available	Flammability		noncombustible	
Density(g/cm ³ (20°C))	2.2	Tamped density(g/l)		30~60	
Appearance	White solid - powder · odorless				
pH-Value	3.7-4.5 (4wt% suspension in water at 25°C)				
Water solubility / miscibility	Virtually insoluble				
Enthalpy (kJ/mol)	No data available	Decomposition temperature (°C)		Non decomposable	
Explosive properties	No data available	Electrical conduc	ctivity	Non conductive	
0. Stability and reactivity					
Stability in storage	Stable at room temperature and recommended storage conditions				
Reactivity	Soluble in strong alkali. Strong reaction with hydrofluoric acid (HF).				
Conditions to avoid	Avoid moisture				
Incompatible materials	Keep away from hydrofluoric acid (HF).				
Hazardous decomposition produc	ts Non decomposition pro	Non decomposition products released in fire conditions			
1. Toxicological information					
			> 0.477mg/l/4h (rat	,	

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	LC ₅₀ : None dead rate at technical max. concentration(rabbit)
Mutagenicity	No data available
Teratogenicity	No data available
	Experience with rabbit : Not irritating to eyes and skin.
Irritability	Experience with man: By prolonged contact with the product no damage to health was observed.
	Repeated exposure may cause skin drying and cracking.
Carcinogenicity	Not classified
	Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV
	can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic
Chronic toxicity	respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory
	processes) were reversible; no indication of silicosis. Animal tests have shown no indication to
	carcinogenic or to reproduction effects.

12. Ecological information

General notification	Not applicable to Biodegradation. No harmful effects to environment. Can be removed
Ocherar nouncation	mechanically from waste water.
	Acute toxicity to fish: no data available
Torrigity	Acute toxicity to daphnia: no data available
Toxicity	Acute toxicity to algae: no data available
	Acute toxicity to bacteria: no data available
Persistence and degradability	No data available
Bio accumulative potential	No data available
Mobility in soil	No data available
Result of PBT and vPvB	No data available
assessment	
Other adverse effects	No data available
3. Disposal considerations	

1/	1 Transport information	
	Recommendation	licensed company.
	Waste disposal	Waste material can be stored together and disposed in according with local/state regulations by a

14. Transport information

This product is not regulated as a hazardous material or dangerous goods for Land/ Sea/ Air transportation.

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulation	Authorizations: No information available. Restrictions on use: No information available. EINECS: This substance is not listed in the inventory. DSD (67/548/EEC): This substance is not listed in the Annex I.	

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Other chemical regulation	TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
	DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List Complies
	EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical
	Substances Complies ENCS - Japan Existing and New Chemical Substances Complies
	IECSC - China Inventory of Existing Chemical Substances Complies
	KECL - Korean Existing and Evaluated Chemical Substances Complies
	PICCS - Philippines Inventory of Chemicals and Chemical Substances Complies
	AICS - Australian Inventory of Chemical Substances Complies
	NZIOC - New Zealand Inventory of Chemicals Complies
	TCSI - Taiwan Chemical Substance Inventory Complies

16. Other information

	CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical
	substances and mixtures. CAS: Chemical Abstracts Service (division of the American Chemical Society).
	EINECS: European Inventory of Existing Commercial Chemical Substances.
	RID: European Rail Transport.
	IMDG: International Maritime Code for Dangerous Goods.
	IATA: International Air Transport Association.
Abbreviations and	OSHA: The United States Occupational Safety and Health Administration.
acronyms	TSCA: Toxic Substances Control Act, The American chemical inventory.
	DSD: Dangerous Substance Directive (67/548/EEC).
	IECSC: Inventory of existing chemical substances in China.
	DSL: Domestic Substances List, The Canadian chemical inventory.
	AICS: The Australian Inventory of Chemical Substances.
	ECL: Existing Chemicals List, the Korean chemical inventory.
	ENCS: Japanese Existing and New Chemical Substances.
Product name	HB-139 Polydimethysiloxane modified of hydrophilic fumed silica with a specific surface area of $200 \pm 20m^2/g$
Key references and sources for data	Not available
Training advice	Provide adequate information, instruction and training for operators

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