



ZHEJIANG FENGHONG NEW MATERIAL CO.,LTD.  
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Add: Tangpu Developing Zone, Anji County, Zhejiang Province, China. P.C.313300

# SAFETY DATA SHEET

Issue: 07/2019

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER:

Identification on the label/Trade name:**HFGEL-120-0**

**1.2 RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**Rheology Modifier,restrictions on use of this material has not been determined.

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

Manufacturer/Supplier: Zhejiang Fenghong New Material Co.,Ltd  
Address: Tangpu Developing Zone,Anji County,Zhejiang Province,China.P.C.313300  
E-mail: [Bentonite@zjfenghong.com](mailto:Bentonite@zjfenghong.com)  
Telephone: +86-571-63806068,63711876

### 1.4 EMERGENCY TELEPHONE NUMBER:

For Chemical Emergency ONLY(spill,leak,fire,exposure or accident),call+86-571-63665132,63806098

For all other inquires about this product,email [bentonite@zjfenghong.com](mailto:bentonite@zjfenghong.com)

## SECTION 2 HAZARDS IDENTIFICATION

### 2.1 GHS CLASSIFICATION

Carcinogenicity	Category 1A
Specific target organ toxicity(repeated exposure)	Category 1(Lungs)

### 2.2 GHS LABEL ELEMENTS

Hazard Pictograms:



Signal Word(S): Danger

Hazard Statement: H350 May cause cancer by inhalation.

H372 Causes damage to organs(Lungs)through prolonged or repeated exposure if inhaled.

Precautionary Statement:**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat,drink or smoke when using this product.

P281 Use personal protective equipment as required.

**Response:**

P308+P313 If exposed or concerned:Get medical advice/attention.

**Storage:**

P405 Store locked up.



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## Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

**2.3 HAZARD WHICH DO NOT RESULT IN CLASSIFICATIONS:May form combustible dust concentrations in air**

## **SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 SUBSTANCE/MIXTURE:Substance**

**3.2 CHEMICAL NAME:Organoclay**

Chemical Name	Wt.%	CAS
Crystalline silica(quartz)	<3	14808-60-7

## **SECTION 4 FIRST AID-MEASURES**

**4.1 GENERAL ADVICE:**Get medical attention immediately if symptoms occur.Show this safety data sheet to the doctor in attendance.Do not leave the victim unattended.

**4.2 INHALATION:**Remove person to fresh air.Keep person quiet and warm and at rest in a position comfortable for breathing.Apply artificial respiration if breathing is difficult,and get medical attention immediately.

**4.3 IN CASE OF SKIN CONTACT:**Remove contaminated clothing.Flush skin thoroughly with soap and plenty of water.If person feels unwell or symptoms of skin irritation persist,get medical attention immediately.

**4.4 IN CASE OF EYE CONTACT:**Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open.Tilt head to avoid contaminating unaffected eye.Get immediate medical attention.Remove contact lenses if possible.

**4.5 INGESTION:**If swallowed,CALL A PHYSICIAN immediately and show this SDS or label.Do not induce vomiting without medical advice.Never give anything by mouth to an unconscious victim.

**4.6 Most important symptoms and effects,both acute and delayed:**No information available.



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### **SECTION 5 FIRE-FIGHTING MEASURES**

**5.1 SUITABLE EXTINGUISHING MEDIA:** Dry chemical

Alcohol-resistant foam

Carbon dioxide(CO<sub>2</sub>)

**5.2 UNSUITABLE EXTINGUISHING MEDIA:**No information available.

**5.3 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:**Handle as an industrial chemical.Keep dust to a minimum to avoid potential formation of explosive air/dust mixture.Will not explode on mechanical impact. Do not allow run-off from firefighting to enter drains or water courses.

**5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:**As in a fire,always wear self-contained breathing apparatus in pressure-demand(MSA/NIOSH approved or equivalent),and full protective gear.

**5.5 FURTHER INFORMATION:**Standard procedure for chemical fires.Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**6.1 PERSONAL PRECAUTIONS,PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

*For non-emergency personnel:*

Wear all appropriate Personal Protective Equipment(see Section 8),including respiratory protection.Keep people away from and upwind of spill/leak.See section 12 for more information.

*For emergency responders:*

Use personal protection recommended in Section 8 of SDS.See also information in"For non-emergency personnel."Remove all ignition sources.Keep nonessential personnel away from the contaminated area.

**6.2 ENVIRONMENTAL PRECAUTION:**

Avoid run-off into storm sewers and ditches that lead to waterways.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**

Take precautionary measures against static discharges.Do not create a powder cloud by using a brush or compressed air.Take up mechanically,placing in appropriate containers for disposal.Clean contaminated surface thoroughly.Prevent product from entering drains.Local authorities should be advised if significant spillages cannot be contained.



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## SECTION 7 HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING:

Wear all appropriate Personal Protective Equipment(PPE)(see Section 8).Avoid formation of respirable particles.Do not breathe vapors/dust.Avoid exposure—obtain special instructions before use.Avoid contact with skin and eyes.Smoking,eating and drinking should be prohibited in the application area.Dispose of rinse water in accordance with local and national regulations.Provide for appropriate exhaust ventilation and dust collection at machinery.Minimize dust generation and accumulation.Routing housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

### 7.2 CONDITIONS FOR SAFE STORAGE,INCLUDING ANY INCOMPATIBILITIES:

Keep containers dry and tightly closed to avoid moisture absorption and contamination.  
Keep product and empty container away from heat and sources of ignition.

### 7.3 ADDITIONAL STORAGE:

Not required under normal use.

## SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS:

Components	CAS-No.	Value type (Form of exposure)	Control parameters/Permissible concentration	Basis
Crystalline silica(quartz)	14808-60-7	TWA(total dust)	30 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica(quartz)		TWA(respirable)	10 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2	OSHA Z-3
Crystalline silica(quartz)		TWA(respirable)	250 mppcf/%SiO <sub>2</sub> +5	OSHA Z-3
Crystalline silica(quartz)		TWA(respirable dust fraction)	0.1 mg/m <sup>3</sup>	OSHA P0
Crystalline silica(quartz)		TWA(respirable fraction)	0.025 mg/m <sup>3</sup> (Silica)	ACGIH
Crystalline silica(quartz)		TWA(respirable dust)	0.05 mg/m <sup>3</sup> (Silica)	NIOSH REL

OSHA has established an action limit of 0.025 mg/m<sup>3</sup>(8-hr TWA)and a permissible exposure limit of.05 mg/m<sup>3</sup>(8-hour TWA) for respirable crystalline silica.

### 8.2 FURTHER OCCUPATIONAL EXPOSURE LIMITS:



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Description	Value type	Control parameters	Basis
inert or nuisance dust	TWA	50 Million particles per cubic foottotal dust	OSHA Z-3
	TWA	15 mg/m <sup>3</sup> total dust	OSHA Z-3
	TWA	5mg/m <sup>3</sup> respirable fraction	OSHA Z-3
	TWA	15 Million particles per cubic footrespirable fraction	OSHA Z-3
Dust,nuisance dust andparticulates	PEL	10 mg/m <sup>3</sup> Total dust	CAL PEL
	PEL	5 mg/m <sup>3</sup> respirable dust fraction	CAL PEL

**8.3 APPROPRIATE ENGINEERING CONTROLS:**Maintain adequate engineering controls and/or ventilation to keep hazardous ingredients below their statutory limits.Use an approved respirator whenever exposure limits are exceeded.

### 8.4 INDIVIDUAL PROTECTION MEASURES,SUCH AS PERSONAL PROTECTIVE EQUIPMENT(PPE):

Respiratory protection:Unless air monitoring demonstrates vapor/mist/dust levels are below the PEL/TLV wear a properly fitted respirator(NIOSH approved)or dust mask during exposure.

Hand protection Material:Neoprene gloves;protective gloves;impervious butyl rubber gloves.The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection:Chemical safety goggles.

Skin and body protection:Dust impervious protective suit

Choose body protection in relation to its type,to the concentration and amount of dangerous substances,and to the specific work place

Hygiene measures:Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	Light cream
Odour:	Odourless
Odour threshold:	Not applicable



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pH:	No data available
Melting point/range:	Not applicable
Boiling point/range(°C):	Not applicable
Flash point(°C):	Not applicable
Evaporation rate:	Not applicable
Flammability(solid,gas);May form combustible dust concentrations in air	
Ignition temperature(°C):	No data available
Upper/lower flammability/explosive limits:	Not applicable
Vapour pressure(25°C):	Not applicable
Vapour density:	No data available
Relative Density(25.2°C):	No data available
Bulk density(kg/m <sup>3</sup> ):	No data available
Water solubility(g/l)at 20°C:	Insoluble
n-Octanol/Water(log Po/w):	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity,dynamic(mPa s):	Not applicable
Explosive properties:	No data available
Oxidising properties:	No data available

### **SECTION 10 STABILITY AND REACTIVITY**

**10.1 REACTIVITY:**No dangerous reaction known under conditions of normal use.

**10.2 CHEMICAL STABILITY:**Stable under recommended storage conditions.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:**No dangerous reactions known.

**10.4 CONDITIONS TO AVOID:**Avoid generating dust;fine dust dispersed in air in sufficient concentrations,and in the presence of an ignition source is a potential dust explosion hazard.

**10.5 POSSIBILITY OF HAZARDOUS REACTIONS:**None known

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:**No data available

**10.7 INCOMPATIBLE MATERIALS:**Reactive or incompatible with the following materials:Strong oxidizing agents,strong acids and strong bases.



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## **SECTION 11 TOXICOLOGICAL INFORMATION**

### **11.1 INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

**Acute oral toxicity:**No data available

**Skin corrosion/irritation:**No data available

**Serious eye damage/eye irritation:**May irritate eyes

**Respiratory or skin sensitization:**No data available

**Germ cell mutagenicity:**No data available

### **11.2 CARCINOGENICITY:**

**IARC Group 1:**Carcinogenic to humans

Crystalline silica(quartz)14808-60-7

**OSHA OSHA specifically regulated carcinogen**

Crystalline silica(quartz)14808-60-7

**NTP Known to be human carcinogen**

Crystalline silica(quartz)14808-60-7

### **11.3 REPEATED DOSE TOXICITY:**

Long term inhalation of crystalline silica dusts may cause lung disease(silicosis).

Crystalline silica has been classified as a probable human carcinogen by IARC.

Epidemiological studies suggest that respirable crystalline silica has caused both immune system and kidney effects.The mechanisms causing these effects are unclear and a dose response relationship has not been determined.

### **11.4 EXPERIENCE WITH HUMAN EXPOSURE:**

Inhalation:Symptoms:Dust particles may cause irritation of the respiratory tract.

Skin contact:Symptoms:Contact may cause irritation.

Eye contact:Symptoms:Contact may cause irritation.

Ingestion:Symptoms:Ingestion will probably cause irritation of the digestive tract.



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### **SECTION 12 ECOLOGICAL INFORMATION**

#### **12.1 ECOTOXICITY:**

**Toxicity to fish:**No data available

**Toxicity to daphnia and other aquatic invertebrates:**No data available

#### **12.2 PERSISTENCE AND DEGRADABILITY:**

**Biodegradability:**No data available

#### **12.3 BIO ACCUMULATIVE POTENTIAL:**

**Bioaccumulation:**No data available

#### **12.4 MOBILITY IN SOIL:**No data available

#### **12.5 OTHER ADVERSE EFFECTS:**

**Results of PBT and vPvB Assessment:**This substance/mixture contains no components considered to be either persistent,bio accumulative and toxic(PBT),or very persistent and very bio accumulative(vPvB)at levels of 0.1%or higher.

**Regulation:**40 CFR Protection of Environment;Part 82 Protection of Stratospheric Ozone-CAA Section 602 Class I Substances.

**Remarks:**This product neither contains,nor was manufactured with a Class I or Class II ODS as defined by the U.S.Clean Air Act Section 602(40 CFR 82,Subpt.A,App.A+B).

**Additional ecological information:**No data available

### **SECTION 13 DISPOSAL CONSIDERATIONS**

**EPA HAZARDOUS WASTE CODE(S):**Not applicable.

**PRODUCT DISPOSAL:**Disposal should be in accordance with applicable regional,federal and local laws and regulations.Do not contaminate ponds,waterways or ditches with chemical or used container

**PACKAGING DISPOSAL:**Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with applicable regional,federal and local laws and regulations.



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## **SECTION 14 TRANSPORT INFORMATION**

### **DOT(DEPARTMENT OF TRANSPORTATION)**

US Department of Transportation Ground(49 CFR):Not regulated

INTERNATIONAL AIR TRANSPORT ASSOCIATION(IATA):Not Regulated

INTERNATIONAL MARITIME DANGERS GOODS(IMDG):Not Regulated

## **SECTION 15 REGULATION INFORMATION**

### **EPCRA-Emergency Planning and Community Right-to-Know Act**

#### **US.EPA CERCLA Hazardous Substances(40 CFR 302)**

This material does not contain any components with a CERCLA RQ.

### **SARA TITLE III(SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

#### **SARA 304-Emergency Release Notification**

This material does not contain any components with a section 304 EHS RQ.

#### **US.EPA Emergency Planning and Community Right-To-Know Act(EPCRA)SARA Title III**

#### **Section 302 Extremely Hazardous Substance(40 CFR 355,Appendix A)**

This material does not contain any components with a SARA 302 RQ.

**311/312 HAZARD CATEGORIES:**Per the June 13,2016 Federal Register notice,EPA harmonized the EPCRA 311/312 hazard categories

with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals(i.e.GHS).

Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes.

**SARA 302:**No chemicals in this material are subject to the reporting requirements of SARA Title III,Section 302.

**SARA 313 REPORTABLE INGREDIENTS:**This material does not contain any chemical components with known CAS numbers that exceed the threshold(De Minimis)reporting levels established by SARA Title III,Section 313.

### **CLEAN AIR ACT**

This product does not contain any hazardous air pollutants(HAP),as defined by the U.S.Clean Air Act Section 112(40 CFR 61).

This product does not contain any chemicals listed under the U.S.Clean Air Act Section 112(r)for Accidental Release Prevention (40 CFR 68.130,Subpart F).

**Non-volatile(Wt):**No data available

### **Massachusetts Right To Know**

Crystalline silica(quartz)CAS#14808-60-7



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### Pennsylvania Right To Know

Organophilic pylosilicate  
Crystalline silica(quartz)CAS#14808-60-7

### New Jersey Right To Know

Organophilic pylosilicate  
Crystalline silica(quartz)CAS#14808-60-7

### California Prop 65:

**WARNING!**This product contains a chemical known to the State of California to cause cancer.  
Crystalline silica(quartz)CAS#14808-60-7

**CONEG HEAVY METAL:**We confirm that we use packaging and/or packaging components in which the sum of the incidental concentration levels of lead,mercury,cadmium and hexavalent chromium do not exceed 100 parts per million by weight.

### The components of this product are reported in the following inventories:

#### TSCA(TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:**We certify that all of the components of this product are either listed on the TSCA inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

**TSCA SECTION 12(b):**This product does not contain chemicals that are required to be notified under the TSCA 12(b)Export Notification.

**DSL:**We certify that all of the components of this product are listed on the DSL.



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### SECTION 16 OTHER INFORMATION

#### ABBREVIATIONS AND ACRONYMS:

ACGIH-American Conference of Governmental Industrial Hygienists  
CAS-Chemical Abstracts Service  
CERCLA-Comprehensive Environmental Response, Compensation, and Liability Act  
CFR-Code of Federal Regulations  
DOT-Department of Transportation  
GHS-Global Harmonized System  
IARC-International Agency for Research on Cancer  
IATA-International Air Transport Association  
ICAO-International Civil Aviation Organization  
IMDG-International Maritime Dangerous Goods  
IMO-International Maritime Organization  
LD50-Lethal Dose, 50%  
NIOSH-The National Institute for Occupational Safety and Health  
OECD-Organization for Economic Co-operation and Development  
OSHA-Occupational Safety and Health Administration  
PMCC-Pensky-Martens Closed Cup  
PPE-Personal Protective Equipment  
NTP-National Toxicology Program  
RQ-Reportable Quantity  
SARA-Superfund Amendments and Reauthorization Act  
SDS-Safety Data Sheet  
STOT-Specific Target Organ Toxicity  
TLV-Threshold Limit Value  
TSCA-Toxic Substances Control Act  
TWA-Time Weighted Average

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