

# FS-ONE MAX / CFS-FIL

Safety Data Sheet

Compiled according to GB/T 17519-2013

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## SECTION 1 Chemical product and company identification

### Product identifier

Product form	Mixture
Trade name	FS-ONE MAX / CFS-FIL
Product code	BU Fire Protection
Chemical Chinese name	
Chemical English name	



Recommended use of the chemical	Adhesives, sealants Firestop intumescent sealant
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### Details of the supplier of the safety data sheet

<b>Supplier</b> Hilti (China) Ltd. 8F, Tower 2, No.58 Yao Yuan Rd. Pudong District 200126 Shanghai - China T +86 21 6016 7316	<b>Department issuing data specification sheet</b> Hilti AG Feldkircherstraße 100 9494 Schaan - Liechtenstein T +423 234 2111 <a href="mailto:product.compliance-fire.protection@hilti.com">product.compliance-fire.protection@hilti.com</a>
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### Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number) GBK GmbH Global Regulatory Compliance +49 (0)6132-84463
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Country	Organisation/Company	Address	Emergency number
China	中国境内化学事故应急咨询电话 / chemical accident emergency consultation service hotline (24/7)		+86 532 83889090

## SECTION 2 Hazards identification

### Emergency overview

No dangerous reactions known under normal conditions of use

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### GHS hazard classification

Other hazards not mentioned above are Not applicable or No data is available.

### Label elements

No data available

### Physical and chemical hazards

No additional information available

### Health hazards

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use

### Environmental hazards

No additional information available

### Other hazards

No additional information available

## SECTION 3 Composition/information on ingredients

Product form Mixture.

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
Quartz (SiO <sub>2</sub> )	2.5 - 5	14808-60-7

## SECTION 4 First-aid measures

### Description of necessary first-aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)
First-aid measures after inhalation	Get medical advice/attention if you feel unwell. Allow affected person to breathe fresh air. Allow the victim to rest
First-aid measures after skin contact	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion	Rinse immediately with plenty of water.
	Obtain medical attention if pain, blinking or redness persists
	Get medical advice/attention if you feel unwell.
	Rinse mouth.
	Do NOT induce vomiting.
	Obtain emergency medical attention

### Most important symptoms/effects

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use
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### Advices for first aid responders

No additional information available

### Notes for the doctor

Other medical advice or treatment	No additional information available
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## SECTION 5 Fire-fighting measures

### Extinguishing media

Suitable extinguishing media	Water spray
	Dry powder
	Foam
	Carbon dioxide
	Sand
Unsuitable extinguishing media	Do not use a heavy water stream

### Specific hazards

Hazardous decomposition products in case of fire	Carbon dioxide
	Carbon monoxide

### Advice for firefighters and protective measures

Firefighting instructions	Use water spray or fog for cooling exposed containers
	Exercise caution when fighting any chemical fire
	Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus
	Complete protective clothing
	Do not enter fire area without proper protective equipment, including respiratory protection

## SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

General measures	No additional information available
Personal Precautions, Protective Equipment and Emergency Procedures	No additional information available

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### For non-emergency personnel

Emergency procedures                      Evacuate unnecessary personnel

### For emergency responders

Protective equipment                      For further information refer to section 8: "Exposure controls/personal protection"

Emergency procedures                      Equip cleanup crew with proper protection

Emergency procedures                      Ventilate area

### Environmental precautions

Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

### Methods and material for containment and cleaning up

Methods for cleaning                      No additional information available

For containment                              No additional information available

### Prevention measures for secondary accidents

Prevention Measures for                      No additional information available

Secondary Accidents

## SECTION 7 Handling and storage

### Handling

Precautions for safe handling                      Wear personal protective equipment  
Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

Hygiene measures                              Provide good ventilation in process area to prevent formation of vapour

Local and general ventilation                      Wash contaminated clothing before reuse.  
Do not eat, drink or smoke when using this product.  
Always wash hands after handling the product

Local and general ventilation                      No additional information available

### Storage

Storage conditions                              Keep cool.  
Store in a dry place.  
Keep only in the original container in a cool, well ventilated place away from :  
Keep container closed when not in use

Material used in packaging/containers                      No additional information available

Incompatible products                              Strong bases. Strong acids.

Incompatible materials                              Sources of ignition. Direct sunlight.

Storage temperature                              5 - 25 ° C

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### SECTION 8 Exposure controls / Personal protection equipment

#### Occupational exposure limits

##### Quartz (SiO<sub>2</sub>) (14808-60-7)

##### China - Occupational Exposure Limits

Local name	矽尘 # Silica dust
OEL PC-TWA	1 mg/m <sup>3</sup> 总尘 (10% ≤ 游离 SiO <sub>2</sub> 含量 ≤ 50% # 10% ≤ free SiO <sub>2</sub> ≤ 50%) 0.7 mg/m <sup>3</sup> 呼尘 (10% ≤ 游离 SiO <sub>2</sub> 含量 ≤ 50% # 10% ≤ free SiO <sub>2</sub> ≤ 50%) 0.7 mg/m <sup>3</sup> 总尘 (50% < 游离 SiO <sub>2</sub> 含量 ≤ 80% # Silica dust 50% < free SiO <sub>2</sub> ≤ 80%) 0.3 mg/m <sup>3</sup> 呼尘 (50% < 游离 SiO <sub>2</sub> 含量 ≤ 80% # Silica dust 50% < free SiO <sub>2</sub> ≤ 80%) 0.5 mg/m <sup>3</sup> 总尘 (游离 SiO <sub>2</sub> 含量 > 80% # Silica dust free SiO <sub>2</sub> > 80%) 0.2 mg/m <sup>3</sup> 呼尘 (游离 SiO <sub>2</sub> 含量 > 80% # Silica dust free SiO <sub>2</sub> > 80%)
Remark (CN)	G1 (结晶型) (对人致癌 (Carcinogenic to humans))
Regulatory reference	GBZ 2.1-2019

#### Biological limit values

No additional information available

#### Monitoring methods

No additional information available

#### Appropriate engineering controls

No additional information available

#### Personal protective equipment

Personal protective equipment

Protective clothing

Safety glasses

Gloves

Avoid all unnecessary exposure

Other information

Do not eat, drink or smoke during use

Hand protection

Wear suitable gloves tested to EN374

Suitable for short-term work or as a splash guard:

Nitrile rubber gloves (> 0.1 mm)

In case of permanent product contact:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves.	Nitrile rubber (NBR).	6 (> 480 minutes).	>0,4		

Eye protection

Chemical goggles or safety glasses

Skin and body protection

Wear suitable protective clothing

Respiratory protection

No respiratory protection needed under normal use conditions

Personal protective equipment symbol(s)

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### SECTION 9 Physical and chemical properties

Physical state	Solid
Appearance	Pasty
Colour	red
Odour	characteristic
Odour threshold	Not determined.
pH	≈ 7.85
Melting point	Not applicable
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability	Not applicable Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	≈ 1.35 g/cm <sup>3</sup>
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Radioactive	No
VOC content	9 g/l

### SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions. Not established
Reactivity	The product is non-reactive under normal conditions of use, storage and transport
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use Not established
Conditions to avoid	None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures
Incompatible materials	Strong acids Strong bases
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced fume Carbon monoxide Carbon dioxide

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**Other properties** No additional information available

### SECTION 11 Toxicological information

#### Acute toxicity

Acute toxicity (oral) No data available  
Acute toxicity (dermal) No data available  
Acute toxicity (inhalation) No data available

#### Skin corrosion/irritation

Skin corrosion/irritation No data available

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pH ≈ 7.85

#### Serious eye damage/eye irritation

Serious eye damage/irritation No data available

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pH ≈ 7.85

#### Respiratory or skin sensitisation

Respiratory or skin sensitisation No data available

#### Germ cell mutagenicity

Germ cell mutagenicity No data available

#### Carcinogenicity

Carcinogenicity No data available

#### Quartz (SiO<sub>2</sub>) (14808-60-7)

IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens

#### Reproductive toxicity

Reproductive toxicity No data available

#### STOT - single exposure

STOT-single exposure No data available

#### STOT - repeated exposure

STOT-repeated exposure No data available

#### Quartz (SiO<sub>2</sub>) (14808-60-7)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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### Aspiration hazard

Aspiration hazard No data available

**FS-ONE MAX / CFS-FIL**Density  $\approx 1.35 \text{ g/cm}^3$ 

## SECTION 12 Ecological information

### Ecotoxicity

Ecology - general The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) Not classified.

Hazardous to the aquatic environment, long-term (chronic) Not classified.

No additional information available

### Persistence and degradability

**FS-ONE MAX / CFS-FIL**

Persistence and degradability Not established

**Quartz (SiO<sub>2</sub>) (14808-60-7)**

Not rapidly degradable	Yes
Persistence and degradability	Biodegradability: not applicable
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

### Bioaccumulative potential

**FS-ONE MAX / CFS-FIL**

Bioaccumulative potential Not established

**Quartz (SiO<sub>2</sub>) (14808-60-7)**

Bioaccumulative potential	No bioaccumulation data available
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### Mobility in soil

**FS-ONE MAX / CFS-FIL**

Bioaccumulative potential Not established

**Quartz (SiO<sub>2</sub>) (14808-60-7)**

Bioaccumulative potential	No bioaccumulation data available
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.

### Other adverse effects

Classification procedure (Ozone) No data available

Other information Avoid release to the environment.



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### SECTION 13 Disposal considerations

Waste treatment methods	Dispose in a safe manner in accordance with local/national regulations.
Contaminated container and packaging	No additional information available
Additional information	No additional information available
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations
Ecological information	Avoid release to the environment.

### SECTION 14 Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
<b>14.1. UN number or ID number</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available			

#### 14.6. Special precautions for user

##### Overland transport

No data available

##### Transport by sea

No data available

##### Air transport

No data available

##### Rail transport

No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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### SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC)      Contains listed substance(s)  
Quartz (CAS-No. 14808-60-7)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Catalogue of Hazardous Chemicals (2015)      Contains Hazardous Chemical(s)  
Quartz (SiO<sub>2</sub>)

Identification of major hazard installations for dangerous chemicals (GB 18218)      Not listed

Catalogue of Severely Restricted Toxic Chemicals      Not listed

Catalogue of Explosive Precursor Dangerous Chemicals      Not listed

Catalogue of Hazardous Chemicals Prohibited from Inland Waterway Transport      Not listed

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous Factors of Occupational Diseases      Contains listed substance(s)  
Silica dust (free SiO<sub>2</sub> content  $\geq 10\%$ ) (CAS-No. 14808-60-7)

List of Highly Toxic Substances      Not listed

Regulations on Administration of Chemicals Subjected to Supervision and Control

Catalogue of Controlled Chemicals      Not listed

Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council)

Catalogue of Precursor Chemicals      Not listed

Regulations on Administration of Ozone Depleting Substances (Decree 573 of the State Council)

List of Ozone-Depleting Substances under Control in China      Not listed

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012)      Contains listed substance(s)

List of Goods Prohibited from Export or Import      Not listed

### SECTION 16 Other information

Data sources      REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disrupting properties
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
N. O. S.	Not Otherwise Specified
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class
VOC	Volatile Organic Compounds
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
PNEC	Predicted No-Effect Concentration
PBT	Persistent Bioaccumulative Toxic
OEL	Occupational Exposure Limit
OECD	Organisation for Economic Co-operation and Development
COD	Chemical oxygen demand (COD)
ThOD	Theoretical oxygen demand (ThOD)
TRGS	Technical Rules for Hazardous Substances
TLM	Median Tolerance Limit
STP	Sewage treatment plant

