

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Version:4.5

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Supersedes: 2019/03/05

SECTION 1 Chemical product and company identification

Product identifier

Product form Mixture
Trade name CFS-SP WB
Product code BU Fire Protection
Chemical Chinese name
Chemical English name



Product group Trade product
Recommended use of the chemical Adhesives, sealants
Flexible joint spray
Restricted use of the chemical For professional use only

Details of the supplier of the safety data sheet

Supplier

Hilti (China) Ltd.
8F, Tower 2, No.58 Yao Yuan Rd.
Pudong District
200126 Shanghai - China
T +86 21 6016 7316

Other

Hilti AG
Feldkircherstraße 100
9494 Schaan - Liechtenstein
T +423 234 2111
chemicals.hse@hilti.com

Department issuing data specification sheet

Hilti AG
Feldkircherstraße 100
9494 Schaan - Liechtenstein
T +423 234 2111
chemicals.hse@hilti.com

Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum -
24h Service
+41 44 251 51 51 (international)

Country	Organisation/Company	Address	Emergency number
China	中国境内化学事故应急咨询电话 / chemical accident emergency		+86 0532 83889090

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

	consultation service hotline (24/7)		
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SECTION 2 Hazards identification

Emergency overview

Pasty, white, red. Grey, characteristic. Harmful to aquatic life. Not applicable. The product is non-reactive under normal conditions of use, storage and transport. Dust/Mist. No dangerous reactions known under normal conditions of use. None under recommended storage and handling conditions (see section 7). Under normal conditions of storage and use, hazardous decomposition products should not be produced. For further information refer to section 8: "Exposure controls/personal protection"

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.
Zinc borate	1 - 2.5	138265-88-0

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 Allow affected person to breathe fresh air.

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

First-aid measures after skin contact	Allow the victim to rest 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.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Specific hazards

Hazardous decomposition products in case of fire	Carbon dioxide Carbon monoxide
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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

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

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

For non-emergency personnel

Emergency procedures	Evacuate unnecessary personnel
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For emergency responders

Protective equipment	For further information refer to section 8: "Exposure controls/personal protection" 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 Secondary Accidents	No additional information available
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SECTION 7 Handling and storage

Handling

Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Provide good ventilation in process area to prevent formation of vapour
Hygiene measures	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 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

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

No additional information available

Biological limit values

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

Monitoring methods

No additional information available

Appropriate engineering controls

No additional information available

Personal protective equipment

Personal protective equipment Avoid all unnecessary exposure
Other information Do not eat, drink or smoke during use
Materials for protective clothing Wear protective clothing
Hand protection Wear protective gloves.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves.	Nitrile rubber (NBR).	1 (> 10 minutes).	>0.4		EN ISO 374.

Eye protection Chemical goggles or safety glasses

Type	Field of application	Characteristics	Standard
Safety glasses.			EN 166, EN 170.

Skin and body protection No additional information available

Respiratory protection No respiratory protection needed under normal use conditions

SECTION 9 Physical and chemical properties

Physical state Solid
Appearance Pasty
Colour white, red, Grey
Odour characteristic
Odour threshold Not determined.
pH ≈ 8.6
Melting point Not applicable
Freezing point Not applicable

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Boiling point	Not applicable
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 ° C	No data available
Density	1.28 kg/l
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Lower explosive limit (LEL)	No data available
Upper explosive limit (UEL)	No data available
Radioactive	No

SECTION 10 Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport
Chemical stability	Stable under normal conditions. Not established
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
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

Zinc borate	
LD50 oral rat	> 5000 mg/kg bodyweight (FIFRA (40 CFR), Rat, Male / female, Experimental value of similar product, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value of similar product, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 4.95 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation (dust), 14 day(s))

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Skin corrosion/irritation

Skin corrosion/irritation	No data available
pH	≈ 8.6

Serious eye damage/eye irritation

Serious eye damage/irritation	No data available
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Respiratory or skin sensitisation

Respiratory or skin sensitisation	No data available
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Germ cell mutagenicity

Germ cell mutagenicity	No data available
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Carcinogenicity

Carcinogenicity	No data available
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Reproductive toxicity

Reproductive toxicity	No data available
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STOT - single exposure

STOT-single exposure	No data available
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STOT - repeated exposure

STOT-repeated exposure	No data available
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Aspiration hazard

Aspiration hazard	: No data available
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CFS-SP WB	
Density	1.28 kg/l

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)	No data available
Hazardous to the aquatic environment, long-term (chronic)	No data available

Zinc borate	
LC50 - Fish [1]	169 µg/l (ASTM E729-88, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across)
EC50 - Crustacea [1]	155 - 413 µg/l (US EPA, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Read-across)

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

BCF - Fish [1]	116 - 60960 (21 day(s), Semi-static system, Marine water, Read-across, Fresh weight)
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Persistence and degradability

CFS-SP WB	
Persistence and degradability	Not established

Zinc borate	
Persistence and degradability	Biodegradability: not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

Bioaccumulative potential

CFS-SP WB	
Bioaccumulative potential	Not established

Zinc borate	
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000)
BCF - Fish [1]	See section 12.1 on ecotoxicology

Mobility in soil

CFS-SP WB	
Ecology - soil	Not established

Zinc borate	
Ecology - soil	High potential for bioaccumulation (BCF > 5000)
Surface tension	Data waiving

Other adverse effects

Classification procedure (Ozone)	No data available
Other information	Avoid release to the environment.

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
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available			

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

SECTION 15 Regulatory information

Regulation on the Safety Management of Hazardous Chemicals	Not listed
Rules for dangerous goods transport by railway	Not listed
Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used	Not listed
Regulation of Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals	Not listed
Regulation of the People's Republic of China on the Administration of the Import and Export of Goods	Not listed
Regulation on the Control of Precursor Chemicals	Not listed
Measures for the Administration of Pharmaceutical Precursor Chemicals	Not listed
Regulations on the Control of Agricultural Chemicals; Notice of Pesticide Transport	Not listed
Regulation on the Management of Controlled Chemicals	Not listed

CFS-SP WB

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

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

Inventory of Existing Chemical Substances in China (IECSC) : Listed

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

Catalogue of Hazardous Chemicals (2015) : Not listed

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

Catalogue of Severely Restricted Toxic Chemicals : 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

Catalogue of Pharmaceutical Precursor Chemicals : Not listed

Measures for the Administration on the restriction of the use of certain hazardous substances in electrical and electronic equipment

Hazardous Substances in Electrical and Electronic Products : 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) : Not listed

List of Goods Prohibited from Export (No. 3) or Import (No. 6) : 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

Other information

None

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.