

CFS-S SIL / CP 601S Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 12/11/2024 Revision date: 12/11/2024

Supersedes: 15/11/2022

Version: 7.5

SECTION 1: Identification

1.1. GHS Product identifier Product form Product name Type of product

Product code

Mixture CFS-S SIL / CP 601S Sealants BU Fire Protection

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use

Adhesives, sealants

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 ZA 2090 Midrand South Africa T +2711 237300, F +2711 2373111 Customercare.za@hilti.com

1.5. Emergency phone number

Emergency number

Department issuing data specification sheet Hilti AG Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-fire.protection@hilti.com

Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

No labelling applicable

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable



CFS-S SIL / CP 601S Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Name	Product identifier	%	Classification according to the United Nations GHS
diisobutoxy-bisethylacetoacetatotitanate	CAS-No.: 83877-91-2	< 2	Flammable liquids, Category 3, H226 Acute toxicity (oral) Not classified Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation Category 1, H318 Specific target organ toxicity – Single exposure, Category 3, Narcosis, H336 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation, H335 Hazardous to the aquatic environment – Acute Hazard Not classified

Full text of H-statements: see section 16

SECTION 4: First-aid measures	
4.1. Description of necessary first-aid me	asures
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	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
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. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Drink plenty of water. Do NOT induce vomiting. Get immediate medical advice/attention. Rinse mouth. Obtain emergency medical attention.
4.2. Most important symptoms/effects, ac	ute and delayed
Symptoms/effects Potential adverse human health effects and	Not expected to present a significant hazard under anticipated conditions of normal use. Based on available data, the classification criteria are not met.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure. Further toxicology information in section 11 must be observed.

SECTION 5: Fire-fighting measures	
5.1. Suitable extinguishing media	
Suitable extinguishing media	Water spray. Carbon dioxide. dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). Sand. Foam. Dry powder.
Unsuitable extinguishing media	Do not use a heavy water stream.

symptoms



Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

5.2. Specific hazards arising from the chemical				
Reactivity in case of fire	Formation of toxic gases is possible during heating or in case of fire. Decomposition products may be a hazard to health.			
Hazardous decomposition products in case of fire	Carbon dioxide. Carbon monoxide.			
5.3. Special protective actions for fire-fighters				
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

6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	Wear recommended personal protective equipment.	
Emergency procedures	Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Do not touch or walk on the spilled product. Evacuate unnecessary personnel.	
6.1.2. 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.	
6.2. Environmental precautions		
Avoid release to the environment. Preve	ent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.	
6.3. Methods and materials for co	ontainment and cleaning up	

For containment	Absorb spilled material with sand or earth. Collect spillage.
Methods for cleaning up	Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
	Clean contaminated surfaces with an excess of water. On land, sweep or shovel into
	suitable containers. Minimise generation of dust. Store away from other materials.

SECTION 7: Handling and storage		
7.1. Precautions for safe 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. 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.	
7.2. Conditions for safe storage, including a	ny incompatibilities	
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.	
Incompatible products	Strong bases. Strong acids.	
Incompatible materials	Sources of ignition. Direct sunlight.	
Storage temperature	5 – 25 °C	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available



Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

8.2. Appropriate engineering controls	
Environmental exposure controls	Avoid release to the environment.
Other information	Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.
8.3. Individual protection measures, su	ich as personal protective equipment (PPE)
Personal protective equipment:	

Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

Hand protection

Protective gloves. ISO 374-1. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration. Wear protective gloves.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Butyl rubber	6 (> 480 minutes)	>0.3		EN ISO 374
	Nitrile rubber (NBR)	1 (> 10 minutes)	>0.4		EN ISO 374

Eye protection Chemical goggles or safety glasses

Туре	Field of application	Characteristics	Standard
Safety glasses			EN 166, EN 170
Skin and body protection	Wear suitable protective clothing		
Respiratory protection	No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear		

Device	Filter type	Condition	Standard
Full face mask	ABEK		EN 136

appropriate mask

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	Liquid
Appearance	Pasty
Colour	Various colours.
Odour	slight.
Odour threshold	Not determined
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Pasty; Not relevant



Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

9.2. Data relevant with regard to physical hazard classes (supplemental)

Molecular mass Additional information Not determined Explosion limits for released methanol: 5.5 - 44%(V)

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 normal conditions. Not established.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Reacts with: water, basic substances and acids . Reaction causes the formation of: methanol.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral)	Not classified	
Acute toxicity (dermal)	Not classified	
Acute toxicity (inhalation)	Not classified	
Additional information	Based on available data, the classification criteria are not met	
CFS-S SIL / CP 601S		
LD50 oral rat	> 2000 mg/kg	
diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)		
LD50 oral rat	> 5000 mg/kg bodyweight (Rat, Oral)	
Skin corrosion/irritation	Not classified	
	Based on available data, the classification criteria are not met	
	pH: ≈ Not applicable	



CFS-S SIL / CP 601S Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met) (Based on		
	available data, the classification criteria are not met)		
	pH: ≈ Not applicable		
Respiratory or skin sensitisation	Not classified		
	Based on available data, the classification criteria are not met		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT-single exposure	Not classified		
diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)			
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.		
STOT-repeated exposure	Not classified		
Aspiration hazard	Not classified		
Aspiration hazard Potential adverse human health effects and	Not classified Based on available data, the classification criteria are not met.		
•			
Potential adverse human health effects and			

12.1. Toxicity	
Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term advers effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Not classified
diisobutoxy-bisethylacetoacetatotitanate (8	3877-91-2)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Reaction product)
12.2. Persistence and degradability	
CFS-S SIL / CP 601S	
Persistence and degradability	Polymer component. biologically not degradable. Elimination by adsorption to activated sludge. The product of hydrolysis (methanol) is readily biodegradable.
diisobutoxy-bisethylacetoacetatotitanate (8	3877-91-2)
Persistence and degradability	Biodegradability: not applicable.
12.3. Bioaccumulative potential	
CFS-S SIL / CP 601S	
Bioaccumulative potential	Polymer component. No bioaccumulation expected.
diisobutoxy-bisethylacetoacetatotitanate (8	3877-91-2)
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in soil	
CFS-S SIL / CP 601S	



Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)		
Ecology - soil	No (test)data on mobility of the substance available.	
12.5. Other adverse effects		
Ozone	Not classified	
Other adverse effects	No additional information available	
Other information	Avoid release to the environment.	

SECTION 13: Disposal considerations

13.1. Disposal methods Waste treatment methods

Product/Packaging disposal recommendations Ecological information Dispose of contents/container in accordance with licensed collector's sorting instructions. Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number or ID number	r		
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping nam	e		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(e	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			
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 availa	able	1	

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



Safety Data Sheet

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information	n
SDS Major/Minor	None
ssue date	2024/11/12
Revision date	2024/11/12
Supersedes	2022/11/15
Other information	None.
Full text of H-statements:	
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H315	Causes skin irritation
H318	Causes serious eve damage

H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

SDS_UN_Hilti

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.