

CFS-S SIL / CP 601S Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 15/11/2022 Revision date: 15/11/2022

Supersedes: 08/02/2021

Version: 7.4

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 Department issuing data specification sheet P.T. Hilti Nusantara Hilti AG The Garden Center Level 3 No. 3-11B, Kawasan Komersial Cilandak JI. Feldkircherstraße 100 FL-9494 Schaan Raya Cilandak KKO ID- 12560 Jakarta Liechtenstein Indonesia T +423 234 2111 T +62 21 789 0850 - F +62 21 7890845 chemicals.hse@hilti.com moid@hilti.com 1.5. Emergency phone number Emergency number Schweizerisches Toxikologisches Informationszentrum - 24h Service

+41 44 251 51 51 (international)

+62 21 789 0850

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



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Name	Product identifier	%	Classification according to the United Nations GHS
bis(ethyl acetoacetato-O1',O3)bis(2-methylpropan-1- olato)titanium	CAS-No.: 83877-91-2	< 2,5	Flammable liquids, Category 3, H226 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

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. 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
First-aid measures after inhalation	advice (show the label where possible). Get medical advice/attention if you feel unwell. Allow affected person to breathe fresh air.
First-aid measures after skin contact	Allow the victim to rest. Remove affected clothing and wash all exposed skin area with mild soap and water,
First-aid measures after eye contact	followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. 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/offects	coute and delayed

 4.2. Most important symptoms/effects, acute and delayed

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

 Potential adverse human health effects and symptoms
 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.
5.2. Specific hazards arising from the chemi	cal
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.



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5.3. Special protective actions for fire-fighter	S
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. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment 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 an	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

8.2. Appropriate engineering controls

Environmental exposure controls Other information Avoid release to the environment. Do not eat, drink or smoke when using this product. Do not eat, drink or smoke during use.



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8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection		Protective gloves. EN 374. 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.				ostances or	
Туре	Material	Permeation Thickness (mm) Penetration Standard			tandard		
Disposable gloves	Butyl rubber	6 (> 480 minutes)	>0.3				N ISO 374
Disposable gloves	Nitrile rubber (NBR)	1 (> 10 minutes)	>0.4			E	N ISO 374
Eye protection		Chemical goggles or	safety glas	ses			
Туре		Field of application Characteristics Standard					
Safety glasses			EN 166, EN 170		EN 170		
Skin and body protection Respiratory protection		Wear suitable protective clothing No respiratory protection needed under normal use conditions. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear appropriate mask					
Device		Filter type Condition Standard		l			
Full face mask		ABEK	EN 136				

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

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	65 °C (ISO 3679)
Auto-ignition temperature	> 400 °C (DIN 51794)
Decomposition temperature	> 300 °C (Lit)
рН	≈ Not applicable
pH solution	Not available
Viscosity, kinematic (calculated value) (40 °C)	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	1,5 – 1,54 g/cm³ 23°C, 1013hPa (ISO 1183-1 A)
Relative density	Not available



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Relative vapour density at 20°C	Not available
Solubility	insoluble in water.
Viscosity, dynamic	> 1000000 mPa.s (Brookfield)
Particle size	Not applicable

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	
bis(ethyl acetoacetato-O1',O3)bis(2-methylpr	opan-1-olato)titanium (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	
Serious eye damage/irritation	Not classified (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	
bis(ethyl acetoacetato-O1',O3)bis(2-methylpr	opan-1-olato)titanium (83877-91-2)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.	



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STOT-repeated exposure Aspiration hazard Potential adverse human health effects and symptoms Other information

Not classified Not classified Based on available data, the classification criteria are not met.

Hydrolysis product / impurity: 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.

SECTION 12: Ecological information	
12.1. Toxicity	
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
bis(ethyl acetoacetato-O1',O3)bis(2-methyl	propan-1-olato)titanium (83877-91-2)
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.
bis(ethyl acetoacetato-O1',O3)bis(2-methyl	propan-1-olato)titanium (83877-91-2)
Persistence and degradability	Biodegradability: not applicable.
12.3. Bioaccumulative potential	
CFS-S SIL / CP 601S	
Bioaccumulative potential	Polymer component. No bioaccumulation expected.
bis(ethyl acetoacetato-O1',O3)bis(2-methyl	propan-1-olato)titanium (83877-91-2)
Bioaccumulative potential	Bioaccumulation: not applicable.
12.4. Mobility in soil	
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Mobility in soil	No additional information available
bis(ethyl acetoacetato-O1',O3)bis(2-methyl	propan-1-olato)titanium (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.



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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods Product/Packaging disposal recommendations Ecology - waste materials 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

In accordance with ADR / IMDG / IATA / RID /					
ADR	IMDG	ΙΑΤΑ	RID		
14.1. UN number or ID 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(e	÷S)				
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 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

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 SDS Major/Minor None Issue date 15/11/2022



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Section	Changed item	Change	Comments
3		Modified	

Other information

None.

Full text of H-statements:		
H226	Flammable liquid and vapour	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	

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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.