CFS-S SIL / CP 601S

According to Taiwan Ministry of Labour Lao-zhi Shou-tzu No. 10702052242, “Regulations for the Labeling and Hazard Communication of Hazardous Chemicals”

Issue date: 2024/11/12 Revision date: 2024/11/12 Supersedes: 2022/11/15 Version: 7.4

1. Identification of the chemical and of the business entity

Chemical name	CFS-S SIL / CP 601S
Product code	BU Fire Protection
	
Other Names	-
Recommended use	Adhesives, sealants
Restrictions on use	-
Names, addresses, and phone numbers of manufacturer, importer or supplier	**Supplier** 喜利得股份有限公司 220 台湾 台北 - 臺灣 新北市板橋區新站路 16 號 24 樓 T +886 2 6630 0345; 0800 221 036 Toll Free - F +886 2 2950 6132 twcs@hilti.com **Department issuing data specification sheet** Hilti AG 9494 Liechtenstein Schaan Feldkircherstraße 100 T +423 234 2111 product.compliance-fire.protection@hilti.com
Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

2. Hazard(s) identification

GHS classification (Taiwan)

-

Label content

Hazard pictograms (GHS TW)	-
Signal word (GHS TW)	-
Hazard statements (GHS TW)	-
Precautionary statements	-
Prevention precautionary statements	-
Response Precautionary Statements	-
Storage precautionary statements	-
Disposal precautionary statements	-
Other hazards which do not result in 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.

3. Composition/information on ingredients

Substance:

Not applicable

Mixture:

Chemical properties — Refer to Section 9

Name	CAS-No.	Concentration
diisobutoxy-bisethylacetoacetatotitanate	83877-91-2	< 2

4. First-aid measures

First aid measures for different exposure routes

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

Most Important Symptoms/Effects

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

Protection for the first aid staff

Personal Protection in First Aid and Measures	-

Notes to physician

Other medical advice or treatment	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.

5. Firefighting measures

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

Specific hazards arising from firefighting measures

Fire hazard	-
Explosion hazard	-
General measures	-
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.

Specific firefighting methods

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

Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus - Complete protective clothing - Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	-

6. Accidental release measures

Personal precautions

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

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

Environmental precautions	Avoid release to the environment Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters

Methods and material 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.

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 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

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
Incompatible products	Strong bases Strong acids
Incompatible materials	Sources of ignition Direct sunlight
Storage temperature	5 - 25 ° C

8. Exposure controls/personal protection

Appropriate engineering controls -

Control parameters

No additional information available

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

Personal protective equipment

General:

Personal protective equipment:
Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

Respiratory protection:

Respiratory protection	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
Full face mask	ABEK		EN 136

Hand protection:

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.

Type	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:

Eye protection — Chemical goggles or safety glasses

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

Skin and body protection:

Skin and body protection — Wear suitable protective clothing

Personal protective equipment symbol(s):

Hygiene measures:

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

9. Physical and chemical properties

Appearance	Pasty
Physical state	Liquid
Molecular mass	Not determined
Colour	Various colours
Odour	slight
Odour threshold [ppm]	No data available
Odour threshold	Not determined
pH	≈ Not applicable
Evaporation rate	No data available
Melting point	No data available
Boiling point	No data available
Flash point	Pasty; Not relevant
Auto-ignition temperature	> 400 ° C (DIN 51794)
Decomposition temperature	> 300 ° C (Lit)
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Additional information	Explosion limits for released methanol: 5.5 - 44%(V)
Density	1.5 - 1.54 g/cm³ 23° C, 1013hPa (ISO 1183-1 A)
Solubility	insoluble in water.

Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	> 1000000 mPa • s (Brookfield)
Explosive limits (vol %)	No data available

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	Reacts with: water, basic substances and acids . Reaction causes the formation of: methanol
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced fume Carbon monoxide Carbon dioxide

11. Toxicological information

Routes of exposure

Other information	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.

Symptoms

Potential adverse human health effects and	Based on available data, the classification criteria are not met

Acute toxicity

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

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

Skin corrosion/irritation	Not classified pH: ≈ Not applicable

Serious eye damage/irritation

Serious eye damage/irritation	Not classified

Respiratory or skin sensitisation

Respiratory or skin sensitisation	Not classified

Chronic toxicity or long-term toxicity

Germ cell mutagenicity

Germ cell mutagenicity	Not classified

Carcinogenicity

Carcinogenicity	Not classified

Reproductive toxicity

Reproductive toxicity	Not classified

STOT-single exposure

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

STOT-repeated exposure	Not classified

Aspiration hazard

Aspiration hazard	Not classified
Viscosity, kinematic	No data available

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)

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

diisobutoxy-bisethylacetoacetatotitanate (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)

Hazardous to the aquatic environment, long-term (chronic)

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

Additional ecotoxicological information

No additional information available

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 (83877-91-2)	
Persistence and degradability	Biodegradability: not applicable

Bioaccumulative potential

CFS-S SIL / CP 601S	
Bioaccumulative potential	Polymer component,No bioaccumulation expected

diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)	
Bioaccumulative potential	Bioaccumulation: not applicable

Mobility in soil

diisobutoxy-bisethylacetoacetatotitanate (83877-91-2)	
Ecology - soil	No (test)data on mobility of the substance available.

Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

13. Disposal considerations

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

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID /

ADR	IMDG	IATA	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(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 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

15. Regulatory information

Applicable regulations

1. Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
2. Traffic Safety Rule

16. Other information

Literature references	1. 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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Section	Changed item	Change	Comments
			general update

Other information None

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.