

Most important

delayed

# SAFETY DATA SHEET

1. Identification			
Product identifier	SWC-7200UF		
Other means of identification Sales Code	MIEWMS		
Recommended use of the chemi	cal and restrictions on use		
Recommended use	SWC Encapsulation material for LED SWC Encapsulation material for LED		
<b>Recommended restrictions</b>	Industrial use only.		
Manufacturer/Importer/Supplier/	Distributor information		
MANUFACTURER			
COMPANY NAME	Shin-Etsu Chemical Co., Ltd.		
CONTACT	Quality Assurance Department (Gunma Complex)		
ADDRESS	13-1, Isobe 2-chome, Annaka-shi, Gunma 379-0195, JAPA	N	
TELEPHONE NUMBER	+81(0)27-385-2172		
FAX NUMBER	+81(0)27-385-2753		
SUPPLIER			
	Shin-Etsu Electronics Materials Singapore Pte. Ltd		
ADDRESS	100 Beach Road, #23-01 Shaw Towers, Singapore 189702		
	+65-6297-2502		
FAX NUMBER	+65-6297-9311		
EMERGENCY E-MAIL	yuuki_sds@shinetsu.jp		
E-WAIL	yuuki_sus@sninetsu.jp		
2. Hazards identification			
GHS classification			
Physical hazards	Not classified.		
Health hazards	Not classified.		
Environmental hazards	Not classified.		
GHS label elements, including p	recautionary statements		
Pictograms	None.		
Signal word	None.		
Hazard statements	None.		
Other hazards which do not result in classification	None known.		
Supplemental information	None.		
3. Composition/informatio	n on ingredients		
Substance or mixture	Mixture		
Chemical name	Common name and synonyms	CAS Number	Concentration (%)
Crystalline free silica		Proprietary	80 - 90
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or p	ersist.	
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention immediately.		

Dusts may irritate the respiratory tract, skin and eyes. symptoms/effects, acute and

#### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). None known.
Specific hazards arising from the chemical	If occur dust of large volumes, may cause dust explosion. By heating and fire, harmful vapors/gases may be formed.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet, gloves, rubber boots, and self-contained breathing apparatus.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not touch or walk through spilled material. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits. Wear appropriate personal protective equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	Eliminate sources of ignition. Pick up and arrange disposal without creating dust.
containment and cleaning up	Never return spills in original containers for re-use.
7 Handling and storage	

# 7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Use adequate ventilation when this product is heated at approximately 150 °C (300 °F) and above in the presence of air. Use care in handling/storage. Keep formation of airborne dusts to a minimum. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. When using, do not eat, drink or smoke. Do not breathe dust. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.
Conditions for safe storage, including any incompatibilities	Guard against dust accumulation of this material. Store in a well-ventilated place. Keep container tightly closed. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. (Qualitatively below 5 degrees C) Keep in original container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components	Туре	Value	Form
Crystalline free silica	TWA	0.1 mg/m3	Respirable dust.
ontrol parameters/Occupation	onal exposure limits		
ACGIH			
Components	Туре	Value	Form
Crystalline free silica	TWA	3 mg/m3	Respirable dust
		10 mg/m3	Inhalable dust
ppropriate engineering ontrol measures	Provide adequate general and local	exhaust ventilation. Provide ey	ewash station.
dividual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear protective gloves.		
Other	Wear suitable protective clothing.		
Respiratory protection	Wear respirator with dust filter. If ventilation is insufficient when heating use chemical respirator with organic vapor cartridge.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		

General nyglene	
considerations	

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Do not breathe dust. Avoid contact with skin. Avoid contact with eyes. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.

#### 9. Physical and chemical properties

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Appearance	
Form	Tablet
Color	White.
Odor	Odorless
Odor threshold	Not available.
рН	Not measurable (Refer to water solubility)
Melting point/freezing point	No data
Initial boiling point and boiling range	No data
Flash point	Not applicable
Evaporation rate	Not applicable (Butyl Acetate=1)
Flammability (solid, gas)	Not applicable.
Flammability limit - lower (%)	No data (Dust explosion)
Flammability limit - upper (%)	No data (Dust explosion)
Explosive limit - lower (%)	No data (Dust explosion)
Explosive limit - upper (%)	No data (Dust explosion)
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1.94 ( 25 °C )
Solubility(ies)	
Solubility (water)	Not soluble
Partition coefficient (n-octanol/water)	Not applicable
Auto-ignition temperature	No data
Decomposition temperature	Not available.
Viscosity	Not applicable
Other data	
Molecular weight	Not applicable
10. Stability and reactivity	
Reactivity	No hazardous reaction known under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

reactions	
Conditions to avoid	Not available.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

# 11. Toxicological information

Inhalation	Dust may irritate respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.

Acute toxicity	None known.		
Symptoms	Dusts may irritate the respiratory tract, skin and eyes.		
Skin corrosion/irritation	Not available.		
Serious eye damage/eye irritation	Not available.		
Respiratory or skin sensitization	l		
Respiratory sensitization	Not available.		
Skin sensitization	Not available.		
Germ cell mutagenicity	Not available.		
Carcinogenicity	Not available.		
IARC Monographs. Overall E	Evaluation of Carcinogenicity		
Crystalline free silica (CA	S Proprietary)	3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	Not available.		
Specific target organ toxicity - single exposure	Not available.		
Specific target organ toxicity - repeated exposure	Not available.		
Aspiration hazard	Not available.		
Chronic effects	Not available.		
Other information	This product can generate formaldehyde at approximately 150 °C (300 °F) and above in the presence of air. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant and potential cancer hazard. So, use adequate ventilation or wear protective equipment such as gloves, goggles, organic vapor respirator or protective clothing when this product is heated at approximately 150 °C (300 °F) and above in the presence of air.		

#### 12. Ecological information

Ecotoxicity	None known.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	No data available.
Other adverse effects	Not available.

#### 13. Disposal considerations

Disposal methods/information	Heat-cure and dispose by landfill. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Dispose of contents/container in accordance with local/regional/national/international regulations.
Special precautions	Not available.

#### 14. Transport information

## ADR

Not regulated as dangerous goods.

# ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to<br/>Annex II of MARPOL 73/78 and<br/>the IBC CodeThis product is not intended to be transported in bulk.

# 15. Regulatory information

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

Controlled Narcotic Drugs (Misuse of Drugs Act, First Schedule, Part I, II & III)

Not regulated.

Controlled Specified Drugs (Misuse of Drugs Act, Fourth Schedule) Not regulated.

Not regulated.		
Chemical Weapons Prohibit	ion (Act)	
Not applicable.		
	nd Management (Hazardous Substances) Regulations	
Not applicable. Environmental Public Health	n Act	
Not applicable.		
International regulations		
Montreal Protocol		
Not applicable. Stockholm Convention		
Not applicable. Rotterdam Convention		
Not applicable. Kyoto protocol		
Not applicable. Basel Convention		
Not applicable.		
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
	Toxic Substances Control Act (TSCA) Inventory	Yes

#### 16. Other information

References HSDB® - Hazardous Substances Data Bank   IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens   ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices NLM: Hazardous Substances Data Base   European Chemicals Agency's dissemination website for registered substances SS 586: Specification for hazard communication for hazardous chemicals and dangerous goods   Part 3: Preparation of safety data sheets (SDS) Part 3 of Annex VI to Regulation (EC) No. 1272/2008   Chemical Risk Information Platform (CHRIP) provided by National Institute of Technology and Evaluation C&L Inventory maintained by European Chemicals Agency
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Disclaimer	This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. This product has been designed, manufactured and developed solely for general industrial use only. This product is not designed for, intended for use as, or suitable for, medical, surgical or other particular purposes. Users have the sole responsibility and obligation to determine the suitability of this product for any application, to make preliminary tests, and to confirm the safety of this product for their use. Users must never use this product for the purpose of implantation into the human body and/or injection into humans.
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