

SAFETY DATA SHEET FOR CHEMICAL PRODUCTS



SUMITOMO BAKELITE CO., LTD.

Product name: SUMIKON® EME-G700

Revision date: 2021/04/13

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

SDS Nr: P000767-001

Version: 8.0

SECTION 1 Chemical product and company identification

Chemical name (Chinese Name) : 环氧塑封料 Epoxy Molding Compound
Chemical name (English name) : Epoxy Molding Compound
Trade name : SUMIKON® EME-G700
Name of company : Sumitomo Bakelite Co., Ltd.
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Emergency telephone for chemical accidents (24 hours a
day): 0532-83889090

Recommended use : For Semiconductors.
Restrictions on use : For industrial use only.

SECTION 2 Hazards identification

Emergency overview


Treat symptomatically. Symptoms may be delayed. Keep victim under observation. May cause an allergic skin reaction.

GHS classification

Health hazards : Skin corrosion/irritation Not classified
: Skin sensitisation, Category 1

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms : 

Signal word : Warning.

Hazard statements : H317 - May cause an allergic skin reaction.

Precautionary statements

Prevention : P261 - Avoid breathing mist/vapours/spray.
precautionary : P272 - Contaminated work clothing should not be allowed
statements : P280 - Wear protective gloves/protective clothing/eye
out of the workplace.

P280 - Wear protective gloves/protective clothing/eye
protection/face protection.

Response Precautionary : P302+P352 - IF ON SKIN: Wash with plenty of water.
Statements : P321 - Specific treatment.

P333+P313 - If skin irritation or rash occurs: Get
medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Disposal precautionary : P501 - Dispose of contents/container in accordance with
statements : local/regional/national/international regulations.

Physical and chemical hazards

No additional information available

Health hazards

May cause an allergic skin reaction.

Symptoms/effects after : May cause an allergic skin reaction.
skin contact

Environmental hazards

No additional information available

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

Product form : Mixture.

Name	Concentration (%)	CAS-No.
Epoxy resin	5 - 10	Trade Secret
Phenol Resin	5 - 10	Trade Secret
Silica(Amorphous) A	60 - 80	60676-86-0
Silica(Amorphous) B	10 - 20	7631-86-9

Silane Compound	0.1 – 1	Trade Secret
Carbon black	0.1 – 1	1333-86-4

Comments : The range of Concentration is greater than or equal to the lower limit but less than the upper limit.

SECTION 4 First aid measures

Emergency

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash skin with plenty of water.
Take off contaminated clothing.
If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
Rinse with water
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell

Most Important Symptoms/Effects

- Symptoms/effects after skin contact : May cause an allergic skin reaction.

Personal Protection in First Aid and Measures

- Wear proper protective equipment, IF exposed or concerned: Get medical advice/attention.

Notes for the doctor

- Other medical advice or treatment : Treat symptomatically.
Symptoms may be delayed.
Keep victim under observation

SECTION 5 Fire fighting measures

Extinguishing media

- Suitable extinguishing media : No additional information available
- Unsuitable extinguishing media : Do not use water jet as an extinguisher, as this will spread the fire.

Special hazard

- Hazardous decomposition products in case of fire : Toxic fumes may be released

Advice for firefighters and protective measures

- Firefighting instructions : No additional information available
- Protection during firefighting : Do not attempt to take action without suitable protective equipment
Self-contained breathing apparatus
Complete protective clothing

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 : Ventilate spillage area
Avoid contact with skin and eyes
Avoid breathing mist/vapours/spray.

For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment
For further information refer to section 8: "Exposure controls/personal protection"
- Personal protection (Emergency response) : Use personal protective mask and fight fire from upwind, to avoid fumes upon combustion.
Wear suitable protective clothing and eye or face protection

- Environmental precautions** : No additional information available

Methods and Equipment for Containment and Cleaning up

- Methods for cleaning : No additional information available
- For containment : Stop leak without risks if possible
Do not allow to enter drains or water courses

Prevention Measures for Secondary Accidents

- Prevention Measures for Secondary Accidents : No additional information available
- Other information : Dispose of materials or solid residues at an authorized site

SECTION 7 Handling and storage

Handling

- Precautions for safe handling : Ensure good ventilation of the work station
Avoid contact with skin and eyes
Avoid breathing mist/vapours/spray.
Wear personal protective equipment
Handle and open container with care
- Hygiene measures : Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before reuse.
Do not eat, drink or smoke when using this product.
Always wash hands after handling the product
Handle in accordance with good industrial hygiene and safety practice
- Local and general ventilation : Handle product only in closed system or provide appropriate exhaust ventilation

Storage

- Storage conditions : Store in a well-ventilated place.
Keep cool.
Store, if possible, in a cool, well ventilated place away from incompatible materials
Keep dry and cool below 5° C for quality.
Minimise generation of dust
- Technical measures : Minimise generation of dust
- Material used in packaging/containers : Store in the original container well sealed

SECTION 8 Exposure controls / Personal protection equipment**Occupational Exposure Limits**

Carbon black(1333-86-4)	
China - Exposure limit values	
OEL TWA	4 mg/m ³ (total dust)
OEL STEL	8 mg/m ³ (calculated-total dust)
OEL chemical category (CN)	Possibly carcinogenic to humans dust
Catalogue of Occupational Hazard Factors	Category 1 - Dusts
USA - ACGIH - Exposure limit values	
ACGIH TWA (mg/m ³)	3 mg/m ³ (inhalable particulate matter)
ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans

Biological limit values

No biological exposure limits noted for the ingredient(s).

Monitoring methods

No additional information available

- Appropriate engineering** : Ensure good ventilation of the work station

controls**Personal protective equipment**

Environmental exposure controls	:	Avoid release to the environment.
Hand protection	:	Protective gloves Wear protective gloves
Eye protection	:	Safety glasses Use personal safety goggles/face shield as required.
Skin and body protection	:	Wear suitable protective clothing Wear protective clothing Use personal protective equipment as required.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment Use personal protective mask as required.

SECTION 9 Physical and chemical properties

Physical state	:	Solid
Appearance	:	Tablet. Powder.
Colour	:	Black
Odour	:	Epoxy.
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	Not applicable
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 ° C	:	No data available
Density	:	No data available
Specific gravity (density)	:	1.8 - 2.2
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Explosive limits (vol %)	:	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
Possibility of hazardous reactions	:	No dangerous reactions known under normal conditions of use Hazardous polymerization does not occur.
Conditions to avoid	:	None under recommended storage and handling conditions (see section 7). Keep away from heat, moisture and sunlight for quality.
Incompatible materials	:	oxidants, strong acids and strong bases
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced No dangerous reaction known under conditions of normal use.
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

Silica (Amorphous) A (60676-86-0)	
LD50 oral rat	> 22500 mg/kg *
Silica (Amorphous) B (7631-86-9)	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.2 mg/l (Exposure time: 1 h)
Silane Compound (Trade Secret)	
LD50 oral rat	1780 mg/kg
LD50 dermal rabbit	4290 mg/kg
LC50 Inhalation - Rat	> 7.35 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	7.35 mg/l/4h
Carbon black (1333-86-4)	
LD50 oral rat	> 15400 mg/kg

Skin corrosion/irritation : Not classified.

Serious eye damage/irritation : No data available

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Silica (Amorphous) A(60676-86-0)	
IARC group	3 - Not classifiable
Silica (Amorphous) B(7631-86-9)	
IARC group	3 - Not classifiable
Carbon black(1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

Aspiration hazard : No data available

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

Silica (Amorphous) B(7631-86-9)	
LC50 fish	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 Daphnia	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
EC50 72h algae (1)	440 mg/l (Species: Pseudokirchneriella subcapitata)
BCF fish	(no bioaccumulation expected)
Silane Compound (Trade Secret)	
LC50 fish	> 934 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])
EC50 Daphnia	331 mg/l

ErC50 (algae)

603 mg/l

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

Other adverse effects

Classification procedure : No data available
(Ozone)

SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Contaminated container and packaging : No additional information available

Additional information : No additional information available

Regional legislation (waste) : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14 Transport information**UN number**

UN-No. (JT/T 617) : Not applicable

UN-No. (IMDG) : Not applicable

UN-No. (IATA) : Not applicable

Proper Shipping Name

Proper Shipping Name (JT/T 617) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Transport hazard class(es)

Overland transport (JT/T 617)

Transport hazard class(es) : Not applicable
(JT/T 617)

Transport by sea

Transport hazard class(es) : Not applicable
(IMDG)

Air transport

Transport hazard class(es) : Not applicable
(IATA)

Packing group

Packing Group (JT/T 617) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

Marine pollutant (IMDG)

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available.

Special transport precautions

Special transport precautions : Keep cool below 5° C.
Keep containers tightly closed. And take care leaks, spills or collapse of cargo, not to avoid damage of containers.

Overland transport (JT/T 617)

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15 Regulatory information

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

Inventory of Existing Chemical Substances in China (IECSC) : All ingredients are listed on the Chinese inventory of Existing Chemical Substances.

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

Catalogue of Hazardous Chemicals (2015) : Considered as Hazardous Chemical(s)

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous Factors of Occupational Diseases : Contains listed substance(s)
Carbon black dust (CAS-No. 1333-86-4)

List of Highly Toxic Substances : Does not contain listed substance(s)

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012) : Contains listed substance(s)

Inventory of Hazardous Chemicals under Key Supervision : Contains listed substance(s)

SECTION 16 Other information

Data sources :

- ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
- IARC Monographs. Overall Evaluation of Carcinogenicity
- UN. Globally Harmonized System of Classification and Labelling of Chemicals (GHS) ST/SG/AC.10/30/Rev.4
- China. GB 30000-2013: Rules for classification and labelling of chemicals.
- China. GB/T 32374-2015: Phrase and codification of chemical hazard statements.
- China. GB13690-2009: General rules for classification and hazard communication of chemicals.
- China. GBZ 2.1-2007: OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents (March 2008)
- China. Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)
- China. Guidance on the Compilation of Safety Data Sheet for Chemical Products (GB/T 17519-2013)
- Japan. GHS Classifications of Regulated Chemicals (NITE)

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.