

CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: SUMIKON® EME-G700 Ver.AN Issue date: 10-09-2020

Version #: 01 SDS No: P019503

SECTION 1 Chemical product and company identification

Product name SUMIKON® EME-G700 Ver.AN

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Recommended use and Limitations on use

Product uses Epoxy Molding Compound for Encapsulant of Semiconductors.

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

SECTION 2 Hazards identification

Emergency overview Exposure to powder or dusts may be irritating to eyes, nose and throat. Prolonged exposure may

cause chronic effects.

Hazard categories

Not classified.

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

Label elements

Pictograms None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

P401 Store in accordance with local/regional/national/international regulation.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical and chemical hazardsThe product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted.

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Health hazards Dust may irritate respiratory system. Prolonged inhalation may be harmful. Dust or powder may

irritate the skin. Expected to be a low ingestion hazard. Dust may irritate the eyes.

Environmental hazards The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Other hazards Not available.

SECTION 3 Composition/information on ingredients

Substance/mixture Mixture

Chemical name	Concentration (%)	CAS Number
	5 - 10	Trade Secret
Epoxy Resin		
酚 醛树 脂	1 - 5	Trade Secret
Phenol Resin		
二氧化硅(无定形) A	70 - 90	60676-86-0
Silica(Amorphous) A		
二氧化硅(无定形) B	5 - 10	7631-86-9
Silica(Amorphous) B		
炭黑	0.1 - 1	1333-86-4
Carbon Black		

Composition comments All concentrations are in percent (%) by weight.

SECTION 4 First aid measures

Inhalation Move to fresh air.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Get medical attention if symptoms occur.

Most important symptoms

and health effects

Irritation of eyes and mucous membranes. Dusts may irritate the respiratory tract, skin and eyes.

Expected acute symptoms and delayed symptoms

Not available.

Personal protection for first-aid responders

First aid personnel must wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Treat symptomatically. Symptoms may be delayed. Notes to physician

SECTION 5 Fire-fighting measures

Extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Extinguishing media to avoid Do not use water jet as an extinguisher, as this will spread the fire. **Specific hazards** Development of hazardous combustion gases or vapours possible in the event of fire.

General fire hazards No unusual fire or explosion hazards noted.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

Fire precautions and protective measures

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Protection of fire-fighters Wear suitable protective equipment.

Use personal protective mask and fight fire from upwind, to avoid fumes upon combustion.

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SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal

protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions

Methods and materials for containment and cleanup of

chemical spills

Avoid discharge into drains, water courses or onto the ground.

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For

waste disposal, see section 13.

Prevention of secondary

hazards

Not available.

SECTION 7 Handling and storage

Handling Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Avoid prolonged exposure.

Practice good housekeeping.

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible Storage

materials (see Section 10 of the SDS). Keep dry and cool below 5°C for quality.

SECTION 8 Exposure controls/personal protection

Occupational Exposure Limits

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ 2.1-2007)

Components	Туре	Value	Form
Carbon Black (CAS 1333-86-4)	PC-TWA	4 mg/m3	Total dust.

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Carbon Black (CAS	TWA	3 mg/m3	Inhalable fraction.
1333-86-4)			

Biological limit values

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

Recommended monitoring

procedures

Follow standard monitoring procedures.

Follow standard monitoring procedures. **Control parameters**

Engineering measures

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep

exposures below the recommended exposure limits.

Personal protective equipment

Respiratory protection Wear respirator with dust filter.

Hand protection Wear protective gloves.

Eye protection Wear safety glasses with side shields (or goggles). Skin and body protection Wear apron or protective clothing in case of contact.

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Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 Physical and chemical properties

Appearance

Physical state Solid.

Tablet. Powder. **Form**

Colour Black. Odour Epoxy.

Not available. pН Melting point/freezing point Not available. Not available. **Boiling point, initial boiling** point, and boiling range

Flash point Flammability limit - lower Not available. Not available.

Flammability limit - upper

Not available.

(%)

Vapour pressure Not available. Vapour density Not available. Relative density Not available. **Density** Not available.

Solubility(ies)

(%)

Solubility (water) Not available. **Partition coefficient** Not available. (n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. Flammability (solid, gas)

Other data

Not explosive. **Explosive properties Oxidising properties** Not oxidising. Specific gravity 1.8 - 2.2

SECTION 10 Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Stability Stable under recommended storage conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Keep away from heat, moisture and sunlight for quality.

Incompatible materials

Hazardous decomposition

products

Strong oxidising agents. Strong acids, alkalies and oxidizing agents.

Toxic gas.

SECTION 11 Toxicological information

Acute toxicity

Test Results Components Species Carbon Black (CAS 1333-86-4)

Acute

Oral

LD50 Rat > 8000 mg/kg *

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Test Results Components **Species**

Silica(Amorphous) A (CAS 60676-86-0)

Acute Oral

LD50 Rat > 22500 mg/kg *

Silica(Amorphous) B (CAS 7631-86-9)

Acute Oral

LD50 Rat >= 22500 mg/kg

Routes of exposure Inhalation. Skin contact. Eye contact.

Irritation of eyes and mucous membranes. Dusts may irritate the respiratory tract, skin and eyes **Symptoms**

Skin corrosion/irritation Not available. Serious eye damage/eye Not available.

irritation

Respiratory or skin sensitisation

Respiratory sensitisation Not available.

Skin sensitiser This product is not expected to cause skin sensitisation.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Risk of cancer cannot be excluded with prolonged exposure.

China OELs for hazardous agents in the workplace: Carcinogen Category

CARBON BLACK DUST (TOTAL) (CAS 1333-86-4) Possible human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4) 2B Possibly carcinogenic to humans.

Silica(Amorphous) A (CAS 60676-86-0) 3 Not classifiable as to carcinogenicity to humans. Silica(Amorphous) B (CAS 7631-86-9) 3 Not classifiable as to carcinogenicity to humans.

Toxic to reproduction This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity

following single exposure

Not available.

Specific target organ toxicity

following repeated exposure

Not available.

Aspiration hazard

Not available.

Chronic effects Prolonged inhalation may be harmful.

Prolonged exposure may cause chronic effects.

SECTION 12 Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity**

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

There are no data on the ecotoxicity of this product.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulation Not available.

Mobility in soil No data available for this product.

Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 Disposal considerations

Residual waste Dispose in accordance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14 Transport information

CNDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Specific precautions

Keep cool below 5°C.

Keep containers tightly closed. And avoid leaks, spills or collapse of cargo to avoid damage to

containers.

SECTION 15 Regulatory information

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

Classification of occupational disease hazards

Carbon Black (CAS 1333-86-4) Silica(Amorphous) B (CAS 7631-86-9)

Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

Measures for the Environmental Management Registration of Hazardous Chemicals (for Trial Implementation)

Not regulated.

Other regulations

This safety data sheet conforms to the following laws, regulations and standards:

•Measures for the Safe Use of Chemicals in Workplaces

•Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

Packing Symbol of Dangerous Goods(GB190-2009)

Regulations on the Control over Safety of Dangerous Chemicals
 Packing - Pictorial Marking for Handling of Goods (GB/T191-2009)

•Act on the Prevention and Treatment of Occupational Diseases (Order No.52, December 31, 2011)

All ingredients are listed on the Chinese inventory of Existing Chemical Substances.

Occupational exposure limits for hazardous agents in the workplace (GBZ 2.1-2007)

Carbon Black (CAS 1333-86-4)
China SAWS GHS: Classification

Not applicable.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Montreal Protocol

Not applicable.

Kyoto Protocol

Not applicable.

Basel Convention

Not applicable.

SECTION 16 Other information

References

- •ACGIH (2017)
- •EPA: AQUIRE database
- •NLM: Hazardous Substances Data Base HSDB® - Hazardous Substances Data Bank
- •IARC (vol. 1~117)
- •China. GBZ 2.1-2007: OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Part 1, Chemical Hazardous Agents (March 2008)
- China. GB13690-2009: General rules for classification and hazard communication of chemicals.
- •UN. Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
- ST/SG/AC.10/30/Rev.4
- Japan. GHS Classifications of Regulated Chemicals (NITE)
- •China. Guidance on the Compilation of Safety Data Sheet for Chemical Products (GB/T 17519-2013)
- China. Safety Data Sheet for Chemical Products Content and Order of Sections (GB/T 16483-2008)
- •China. GB 30000-2013: Rules for classification and labelling of chemicals.
- •China. GB/T 32374-2015: Phrase and codification of chemical hazard statements.

Disclaimer

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