

Shin-Etsu Electronics (M) Sdn. Bhd.

PRODUCT NAME : KMC-3580P-8

DATA ISSUED: 6/10/2004
MSDS NO.: EU-06-GR904492

SECTION 1. COMPANY IDENTIFICATION

COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Shin-Etsu Electronics (M) Sdn. Bhd.
ADDRESS : Lot 50, Jalan Serendah 26/17, HICOM Industrial Estate,
40000 Shah Alam, Selangor, Malaysia.

EMERGENCY TELEPHONE NUMBER:

480-893-8898 (Shin-Etsu MicroSi, Inc.)
800-424-9300 (CHEMTREC) (24hrs) (Washington, D. C. USA)
603-51921081 (Shin-Etsu Electronics (M) Sdn. Bhd.) (24 hours)
603-51914309 (Shin-Etsu Electronics (M) Sdn. Bhd.) (24 hours)
(Direct line) (Office Hours)

TELEPHONE NUMBER FOR INFORMATION:

03-3246-5231 (Tokyo, JAPAN)
602-893-8898 (Shin-Etsu MicroSi, Inc.)
603-51921081 (Shin-Etsu Electronics (M) Sdn. Bhd.) (24 hours)
603-51914309 (Shin-Etsu Electronics (M) Sdn. Bhd.) (24 hours)
(Direct line) (Office Hours)

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BASE NO. : 1

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PRODUCT CLASSIFICATION : Epoxy Molding Compound

SECTION 2. COMPOSITION

SINGLE OR MIXTURE :

Mixture

CHEMICAL IDENTIFICATION :

Epoxy resin mixture

HAZARDOUS COMPONENT (S) / (CAS NO) :

Amorphous silica/(Confidential): ca. 85%
Epoxy resin compound/(Confidential) : ca. 3%
Carbon black/(1333-86-4) [Carcinogen] : ca. 0.2%
(See Section 8 of this MSDS for Exposure Guideline)
(See Section 11 of this MSDS for Carcinogenicity)

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SECTION 3. HAZARDS IDENTIFICATION

HAZARDS CLASSIFICATION :

None (based on IMO)
None (based on DOT)

FIRE AND EXPLOSION :

May cause dust explosion.

POTENTIAL HEALTH EFFECT :

INHALATION : May cause slight irritation to nose and throat by generated dust.
SKIN CONTACT : No significant effect.
EYES CONTACT : May cause mechanical eyes irritation.
INGESTION : No information is available.

SECTION 4. FIRST AID MEASURES

INHALATION : Remove to fresh air, and then gargle with water

SKIN CONTACT : Remove product from skin, and wash with detergent.

EYES CONTACT : Immediately flush with water for at least 15 minutes.

INGESTION : Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT (method used) :

Not applicable

FLAMMABLE LIMITS :

LOWER : Not measured (Dust explosion)
UPPER : Not measured (Dust explosion)

EXTINGUISHER MEDIA:

Every extinguishing media.

SPECIAL FIRE FIGHTING PROCEDURE :

None

UNUSUAL FIRE AND EXPLOSION HAZARD :

Burning can produce phosphorus oxides, a toxic and corrosive gas.
Emits toxic fumes under fire conditions.
May cause dust explosion.

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SECTION 6. ACCIDENTIAL RELEASE MEASURES

STEP TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED :

- Wear appropriate protective equipment.
- Collect spilled materials and place in a container.
- Avoid raising dust.

SECTION 7. HANDLING AND STORAGE

PRECAUTION TO BE TAKEN IN HANDLING AND STORING :

- Keep container closed when not in use.
- Store in a cool place (Qualitatively under 5 Degrees C).
- Keep away from heat, sparks and flame.
- Do not lay the container on its side.
- Avoid contact with eyes and prolonged or repeated skin contact.
- Use with adequate ventilation.
- Do not inhale dust.
- Keep out of reach of children.

* * * * Information about the emptied container * * * * *

- Do not re-use this container.
- Keep away from heat, sparks and flame.
- Do not puncture or cut this container, and do not weld on or near this container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

- ACGIH TLV-TWA: 0.1mg/m³, (RESPIRABLE DUST).
- OSHA PEL : 8H TWA 10mg/m³/%SiO₂+2 (RESPIRABLE DUST)
[Amorphous silica]
- ACGIH TLV-TWA: Not established.
- OSHA PEL : Not established [Epoxy resin compound]
- ACGIH TLV-TWA : 3.5mg/m³ (C) (SUSPECTED CARCINOGEN)
- OSHA PEL: 8H TWA 3.5mg/m³ (C) [Carbon Black]

RESPIRATORY PROTECTION (specify type) :

Dust respirator.

VENTILATION :

- LOCAL EXHAUST : Required.
- MECHANICAL (general) : Adequate ventilation system
- SPECIAL : Unknown
- OTHER : Unknown

PROTECTIVE GLOVES :

Plastic film or rubber gloves

EYE PROTECTION :

Safety glasses.

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OTHER PROTECTIVE CLOTHING OR EQUIPMENT :

Eyewash equipment

WORK/HYGIENIC PRACTICES :

Keep away from heat, sparks and flame.

Do not inhale dust.

Avoid contact with eyes and prolonged or repeated skin contact.

Wash hands and gargle after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT :

Not applicable

VAPOR PRESSURE :

Not applicable

VAPOR DENSITY (air = 1):

Not applicable

SPECIFIC GRAVITY :

2.00 (25° C) (true specific gravity)

MELTING POINT :

Not applicable

EVAPORATION RATE :

Not applicable (Butyl Acetate = 1)

SOLUBILITY IN WATER :

Not soluble

APPEARANCE (color):

Grayish black

APPEARANCE (form):

Granules

ODOR:

Slight odor

SECTION 10. STABILITY AND REACTIVITY

STABILITY :

Stable

CONDITION TO AVOID :

Heating, but no hazard

INCOMPATIBILITY (material to avoid):

None

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NoneHAZARDOUS POLYMERIZATION :
Will not occurCONDITION TO AVOID :
None

SECTION 11. TOXICOLOGICAL INFORMATION

SKIN IRRITATION :
Mild irritant [Epoxy resin compound]EYE IRRITATION :
Mild irritant [Epoxy resin compound]ACUTE TOXICITY (LD₅₀):
LD₅₀ (Oral/Rat) : 3563mg/kg [Epoxy resin compound]ACUTE TOXICITY (LC₅₀):
No information is available.CHRONIC TOXICITY:
No information is available.CARCINOGENICITY:
NTP: Not listed, IARC : Listed, OSHA REGULATED : Not listed
IARC: Possibly carcinogenic to humans (Group 2B) [Carbon Black]MUTAGENICITY :
Ames Test : Positive [Epoxy resin compound]OTHER INFORMATION:
None

SECTION 12. ECOLOGICAL INFORMATION

BIODEGRADATION :
No information is availableBIOACCUMULATION:
Bioconcentration Factor (BCF) / (Carp) : <65 [Epoxy resin compound]AQUATIC TOXICITY:
TLm (Oryzias latipes) : 3.67mg/1/48Hr [Epoxy resin compound]OTHER INFORMATION:
None



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SECTION 13. DISPOSAL CONSIDERATIONS

After hardening by heating, can be land-filled. Observe all federal, state, and local laws.

SECTION 14. TRANSPORT INFORMATION

<IMO INFORMATION>

ID No. :
None

CLASSIFICATION AND CLASS:
None

PACKAGING GROUP :
None

PROPER SHIPPING NAME:
None

TECHNICAL SHIPPING NAME:
None

MARINE POLLUTANT:
None

<DOT INFORMATION>

ID No. (49CFR 172.101) :
None

HAZARD CLASS (49CFR 721.101):
None

PACKAGING GROUP (49CFR 721.101):
None

PROPER SHIPPING NAME (49CFR 172.101):
None

TECHNICAL SHIPPING NAME (49CFR 172.101):
None

DOT REPORTABLE QUANTITY (49CFR 172.101, APP.) :
HAZARD SUBSTANCE (S) NAME/(CAS No.), CONTENTS AND RQ:
Not applicable

SECTION 15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:
Listed on the TSCA inventory

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SUPERFUND AMENDMENTS AND REAUTHORISATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION :

This regulation requires submission of annual reports of toxic chemical (s) that appear in section 313 of the emergency planning and community Right-To-Know Act of 1986 and 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for the material.

The toxic chemical (s) contained in this product are :

CHEMICAL NAME/(CAS No.) AND CONTENTS

** None **

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CALIFORNIA PROPOSITION 65):

This regulation requires a warning for California Proposition 65 Chemical (s) under the statute.

The California Proposition 65 Chemical (s) contained in this product are:

CHEMICAL NAME/(CAS No.) AND CONTENTS

** None **

SECTION 16. OTHER INFORMATION

For Industrial Use Only.

Do not inhale exhaust gas at curing.

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This materials safety data sheet is offered solely for your information, consideration and investigation. The data described in this MSDS consist of data on literature, our acquisitional data and analogical inference by data of similar chemical substance or product. Shin-Etsu Electronics (M) Sdn. Bhd. provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.
