

SAFETY DATA SHEET

Epiform F-472

Date issued: 13/Apr./17

Date revised:12/Nov./18

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Epiform F-472
 CHEMICAL FAMILY : Epoxy resin compound
 MANUFACTURER : Somar Corporation ; 19-1, Inari 5-Chome,Soka,
 Saitama, 340-0003, Japan
 EMERGENCY PHONE : +81-48-931-1515 (JAPAN) QAC Department

2. HAZARDS IDENTIFICATION

【GHS CLASSIFICATION】

| | | |
|-----------------------|---|---------------------------------|
| HEALTH HAZARDS | Acute Toxicity (Oral) | Not Classified |
| | Skin Corrosion/Irritation | Category 2 |
| | Serious Eye Damage/Eye Irritation | Category 1 |
| | Skin Sensitization | Category 1 |
| | Germ Cell Mutagenicity | Not Classified |
| | Carcinogenicity | Category 2 |
| | Reproductive Toxicity | Category 1B |
| | Specific Target Organ Systemic Toxicity (Single Exposure) | Category 2 (Respiratory system) |
| | Specific Target Organ Systemic Toxicity (Repeated Exposure) | Not Classified |
| ENVIRONMENTAL HAZARDS | Hazardous to the Aquatic Environment Acute Hazard | Category 3 |
| | Hazardous to the Aquatic Environment Chronic Hazard | Category 3 |

*Not applicable or Not Classifiable items other than above.

【GHS LABEL ELEMENTS】 :



【SIGNAL WORD】 : Danger

【HAZARD STATEMENT】 : H315:Causes skin irritation
 H317:May cause an allergic skin reaction
 H318:Causes serious eye damage
 H351 :Suspected of causing cancer
 H360:May damage fertility or the unborn child
 H371:May cause damage to organs (Respiratory system)
 H402:Harmful to aquatic life
 H412:Harmful to aquatic life with long lasting effects

【PRECAUTIONARY STATEMENTS】

PREVENTION : P201:Obtain special instructions before use.
 P202:Do not handle until all safety precautions have been read and understood.

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P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash hand thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/eye protection/face protection.

P281: Use personal protective equipment as required.

FIRST-AID MEASURES : P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P309+P311: IF Exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P310: Immediately call a POISON CENTER or doctor/physician.

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

P362: Take off contaminated clothing and wash before reuse.

P405: Store locked up.

STORAGE
DISPOSAL

: P501: Dispose of contents/container to follow in accordance with local/regional/national/international regulation (to be specified).

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE

: Mixture

| Hazardous Ingredients | % by wt | | |
|---|---------|---|-----|
| Bis-phenol A type of Epoxy resin (Solid) | 15 | - | 25 |
| Brominated bis-phenol A type of Epoxy resin (Solid) | 35 | - | 45 |
| Bis-phenol A | 1 | - | 5 |
| Antimony trioxide | 5 | - | 15 |
| Carbon black | 0.1 | - | 0.5 |
| 2-Methylimidazole | 1 | - | 5 |

4. FIRST AID MEASURES

INHALATION : Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

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- INGESTION : Do not induce vomiting and get medical attention.
- SKIN CONTACT : Wash thoroughly with neutral soap and water.
- EYE CONTACT : Flush eyes with large amounts of water and lose no time to see an eye specialist.

5. FIRE FIGHTING MEASURES

- HAZARDOUS : Carbon monoxide possible where
DECOMPOSITION PRODUCTS incomplete combustion occurs.
- EXTINGUISHING MEDIA : Foam, Carbon dioxide, Dry chemicals
- FIRE FIGHTING EQUIPMENT : Wear full bunker gear including a
self-contained breathing apparatus
(SCBA)
- FIRE FIGHTING : Shut off fuel to fire and extinguish with
foam or dry chemical.
- INSTRUCTIONS : Water may be used to keep fire exposed
container cool.

6. ACCIDENTAL RELEASE MEASURES

- LEAKS AND SPILLS : Sweep up and discard
- PERSONAL PROTECTION : See Section 8.

7. HANDLING AND STORAGE

- HANDLING : Use with an appropriate local exhaust ventilation for work
areas and heat curing areas.
Avoid skin contact and eye contact. Wear goggles, gloves and
dust respirators.
Wash skin and gargle with large amount of water after
handling.
- STORAGE : Store in full tightly sealed containers in a cool, dry place.
Keep away from direct sunlight, heat sources and ignition
sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- SKIN PROTECTION : Wear long sleeved working clothes, rubber gloves, an
apron and arm covers for protection.
- EYE PROTECTION : Be sure to wear safety glasses with side shields.

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RESPIRATORY PROTECTION : Wear an approved air-purifying respirator.

ENGINEERING CONTROLS : Provide general and local exhaust ventilation.

EXPOSURE GUIDELINE : None established for Epiform F-472

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Black powder

ODOR : Weak epoxy odor

SPECIFIC GRAVITY : 1.3

SOFTENING POINT : 70~100°C

SOLUBILITY (in water) : Insoluble

FLASH POINT : >200°C

10. STABILITY AND REACTIVITY

GENERAL : This product is stable and hazardous polymerization will not occur during proper industrial handling.

INCOMPATIBLE MATERIALS : Strong oxidizing agents.

REACTIVITY : Strong oxidizing agents, Strong lewis acids, Alkali, Amines.

DECOMPOSITION PRODUCTS : Burning can produce CO and / CO₂, Aldehydes and other organic substance.

11. TOXICOLOGICAL INFORMATION

- Acute Toxicity (Oral) LD₅₀
Bis-phenol A type of Epoxy resin(Solid) : >11400mg/kg(rat)
- Skin Corrosion/Irritation
Bis-phenol A type of Epoxy resin(Solid) : Category2
- Serious Eye Damage/Eye Irritation
Bis-phenol A type of Epoxy resin(Solid) : Category2A
Bis-phenol A : Category1
- Skin Sensitization
Bis-phenol A type of Epoxy resin(Solid) : Category1
Bis-phenol A : Category1
- Carcinogenicity
Antimony trioxide : Category2

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•Reproductive Toxicity

Bis-phenol A : Category2

2-Methylimidazole : Category1B

**•Specific Target Organ Systemic Toxicity
(Single Exposure)**

Bis-phenol A : Category1

**•Specific Target Organ Systemic Toxicity
(Repeated Exposure)**

Bis-phenol A : Category2

*The data on other ingredients are not available.

12. ECOLOGICAL INFORMATION

**•Hazardous to the Aquatic Environment Acute
Hazard**

Bis-phenol A type of Epoxy resin (liquid) : Category2

Bis-phenol A : Category2

**•Hazardous to the Aquatic Environment
Chronic Hazard**

Bis-phenol A type of Epoxy resin (liquid) : Category2

13. DISPOSAL CONSIDERATIONS

Waste must be disposed in conformity with local disposal regulations.

14. TRANSPORT INFORMATION

UN CLASS : Not Applicable

UN NUMBER : Not Applicable

IMDG CODE : Not Applicable

IATA CODE : Not Applicable

Keep away from heat and any sources of ignition.

Transport in conformity with local regulations.

15. REGULATORY INFORMATION

Contact local authorities to determine if there may be other local reporting requirements.

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