

- GRP STEEL CORE MATERIAL SAFETY DATA SHEETS -

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Information about manufacturer

1.1.1 Company Name : SUHIL CO., Ltd

1.1.2 Address : 372 Gammun-Nonggong 1BK, Bokkwang-ri, Gammun-myun,
Kimchun-city, KyungBuk-Do, Korea

Tel : 82-54-439-2441~2

Fax : 82-54-439-2444

1.2 Product

1.2.1 General Name : Glass Reinforced Plastics with Steel Core

1.2.2 Synonyms : Vinyl Ester Resin treated with Glass Fiber, Steel Wire

SECTION 2. COMPOSITION AND INGREDIENT

2.1 Component

2.2 CAS No.

- Vinyl Ester Resin	100-42-5
- Glass Fiber	65997-17-3
- Steel Wire	Iron (7439-96-6) & Zinc (7440-66-6)

SECTION 3. HAZARDOUS IDENTIFICATION

3.1 Health Effects

- Eye Contact :

No hazards of this material have been wholly investigated and known; but may cause eye effects.

- Skin Contact :

When it was exposed to mist or powder of this material under breaking or cracking, it may cause itchy or stimulation on skin.

- Inhalation :

No hazards of this material have been wholly investigated and known.

- Ingestion :

No hazards of this material have been wholly investigated and known; but direct ingestion may cause hazards effects.

SECTION 4. FIRST AID AND MEASURES

4.1 Eye Contact :

Immediately flush with fresh plenty of water in several time. If any symptoms of such as irritation are perceived, get medical attention by doctor's instruction.

4.2 Skin Contact :

Flush with fresh plenty of water. Remove stained or contaminated clothing.

4.3 Inhalation :

Remove to fresh air. And get medical attention as soon as possible.

4.4 Ingestion :

If vomited, immediately induce vomiting. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Flash point : Refer to Section 9 Physical and Chemical Properties.

5.2 Auto Ignition Temperature : No applicable and available information.

5.3 Lower/Upper Explosive Limit : No applicable and available information.

5.4 Extinguishing Media :

- If possible, transfer container of this material from fireplace to safe place.
- Extinguishing with dry chemical or CO₂.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Action for Health Protection :

- Use protective equipment such as impermeable gloves, goggles and so forth.

6.2 Actions for Environmental Protection :

- Take action for this material not to influx in drainage systems or river, stream and lakes.

6.3 Removal and purification :

- In case of small leakage or spill, absorb leakage or spill with absorbent material E45 such as sand cottons. And place them in a chemical waste container.
- Obey relevant local state, federal and provincial laws and regulations.

SECTION 7. HANDLING AND STORAGE

7.1 Handling :

- For handling, use personal protective equipments. After handling wash throughly.

7.2 Storage :

- Store in a cool and dry place. Keep it away from heat sources material and direct light sources.
- Keep it away from oil or water.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Exposure Limit : No applicable and available information.

8.2 Engineering Controls :

- Use adequate ventilation.

8.3 Respiratory Protection :

- Under normal handling conditions, not required protective equipment.

8.4 Eye protection :

- If required, use goggle.

8.5 Skin Protection :

- If required, use impermeable gloves when handling.

8.6 Sanitary Care :

- Wash clearly hand after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance : Typical solid rod

9.2 Odor : Not determined

9.3 PH : Neutral

9.4 Solubility in water : Non-soluble

9.5 Flash point : Impossible to be determined

9.6 Tensile strength : min 1,200N/mm²

9.7 Explosive : No any component to cause explosion reaction

9.8 Oxidization : No applicable and available information.

9.9 Vapor Pressure : No applicable and available information.

SECTION 10. CHEMICAL STABILITY AND REACTIVITY

10.1 Chemical Stability :

- Very stable under normal condition, room temperature and air pressure.

10.2 Conditions to avoid instability or hazards :

- Avoid contacting with chemical strong acids.
- Avoid contacting with heat or humidity sources for long-term.
- Avoid contacting with strong oxidizing reagents

10.3 Hazardous polymerization :

- Will not occur under normal treating and handling condition.

10.4 Hazardous Decomposition Products :

- Will not occur under normal condition.

SECTION 11. TOXICOLOGICAL PROPERTIES

11.1 Acute Effects :

- No applicable and available information.

11.2 Carcinogenicity :

- Not any components inducing cancer or will not occur cancer.

11.3 Health Effects :

- Please refer Section 3. Hazardous Identification.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Bionomic Toxicology :

- No applicable and available information.

12.2 Aquatic Toxicology :

- No applicable and available information.

SECTION 13. DISPOSAL CONSIDERATION

13.1 Disposal Method :

- Waste shall be disposed in accordance with relevant local, federal, state and provincial law or regulations.

SECTION 14. TRANSPORTATION INFORMATION

14.1 Relevant Shipping Classification and Regulations :

- No applicable and available information.

14.2 Proper Shipping Name :

- No applicable and available information.

SECTION 15 REGULATORY INFORMATION

15.1 Regulations on Korea Industrial Safety and Health Law :

- This product has not any hazardous components.

15.2 Regulations of Other Countries :

- No applicable and available information.