

- WATER SWELLABLE POLYESTER YARN MATERIAL SAFETY DATA SHEETS -

1. PRODUCT AND COMPANY IDENTIFICATION
2. HAZARDOUS IDENTIFICATION
3. FIRST AID AND MEASURES
4. FIRE FIGHTING MEASURES
5. ACCIDENTAL RELEASE MEASURES
6. HANDLING AND STORAGE
7. EXPOSURE CONTROLS AND PERSONAL PROTECTION
8. PHYSICAL AND CHEMICAL PROPERTIES
9. CHEMICAL STABILITY AND REACTIVITY
10. TOXICOLOGICAL PROPERTIES
11. ECOLOGICAL INFORMATION
12. DISPOSAL CONSIDERATION
13. TRANSPORTATION INFORMATION
14. REGULATORY INFORMATION

2004.02.04

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 : Water Swellable Polyester Yarn

1.2.2 Synonyms : Polyester Yarn, Water Swellable Agent

SECTION 2. HAZARDOUS IDENTIFICATION

2.1 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 3. FIRST AID AND MEASURES

3.1 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.

3.2 Skin Contact :

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

3.3 Inhalation :

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

3.4 Ingestion :

If vomited, immediately induce vomiting. Get medical attention.

SECTION 4. FIRE FIGHTING MEASURES

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

4.2 Auto Ignition Temperature : No applicable and available information.

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

4.4 Extinguishing Media :

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

SECTION 5. ACCIDENTAL RELEASE MEASURES

5.1 Action for Health Protection :

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

5.2 Actions for Environmental Protection :

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

5.3 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 6. HANDLING AND STORAGE

6.1 Handling :

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

6.2 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 7. EXPOSURE CONTROLS AND PERSONAL PROTECTION

7.1 Exposure Limit : No applicable and available information.

7.2 Engineering Controls :

- Use adequate ventilation.

7.3 Respiratory Protection :

- Under normal handling conditions, not required protective equipment.

7.4 Eye protection :

- If required, use goggle.

7.5 Skin Protection :

- If required, use impermeable gloves when handling.

7.6 Sanitary Care :

- Wash clearly hand after handling.

SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES

8.1 Appearance : Typical solid rod

8.2 Odor : Not determined

8.3 PH : Neutral

8.4 Solubility in water : Non-soluble

8.5 Flash point : Impossible to be determined

8.6 Tensile strength : min 1,200N/mm²

8.7 Explosive : No any component to cause explosion reaction

8.8 Oxidization : No applicable and available information.

8.9 Vapor Pressure : No applicable and available information.

SECTION 9. CHEMICAL STABILITY AND REACTIVITY

9.1 Chemical Stability :

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

9.2 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

9.3 Hazardous polymerization :

- Will not occur under normal treating and handling condition.

9.4 Hazardous Decomposition Products :

- Will not occur under normal condition.

SECTION 10. TOXICOLOGICAL PROPERTIES

10.1 Acute Effects :

- No applicable and available information.

10.2 Carcinogenicity :

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

10.3 Health Effects :

- Please refer Section 3. Hazardous Identification.

SECTION 11. ECOLOGICAL INFORMATION

11.1 Bionomic Toxicology :

- No applicable and available information.

11.2 Aquatic Toxicology :

- No applicable and available information.

SECTION 12. DISPOSAL CONSIDERATION

12.1 Disposal Method :

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

SECTION 13. TRANSPORTATION INFORMATION

13.1 Relevant Shipping Classification and Regulations :

- No applicable and available information.

13.2 Proper Shipping Name :

- No applicable and available information.

SECTION 14 REGULATORY INFORMATION

14.1 Regulations on Korea Industrial Safety and Health Law :

- This product has not any hazardous components.

14.2 Regulations of Other Countries :

- No applicable and available information.