佳易容 Fine-Blend
-Make you different

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Product trade name: Fine-Blend® SPG-02

Chemical name: Polypropylene grafted with glycidyl methacrylate

1.2 Relevant identified uses of the substance or mixture

Compatibilizer or Chain extender for plastic modification

1.3 Company information

Manufacturer: Fine-Blend Polymer (Shanghai) Co., LTD.

Address: NO.3078 Humin RD, Minhang, Shanghai, 201109, China

TEL: +86-21-54867166

FAX: +86-21-54867996

Emergency contact: +86-0513-81903853

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

Not a hazardous substance or mixture.

Hazard Statements

Supplementary Precautionary Statements

Keep away from heat/spark/open flames/hot surface. No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Take precautionary measures against static discharge.

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

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

P285 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing vapour/spray.

P321 Specific treatment (see medical advice on this label).

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P342+311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to…

2.3 Other hazards

No additional information available.

3. COMPOSION/INFORMATION ON INGREDIENTS

Component	Concentration	CAS No.
1-Propene polymer with ethene	98.5%-99%	9010-79-1
Glycidyl methacrylate	1%-1.5%	106-91-2

4. FIRST AID MEASURES

4.1 Eye contact

Flush with plenty of water.

4.2 Skin contact

Wash with water and mild soap.

4.3 Inhalation

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

4.4 Ingestion

Drink enough warm water, promote emesis. Call a physician.

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Water, Foam, Dry chemical, Carbon dioxide (CO_2).

5.2 Firefighting Instructions

Wear self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Land spill: Pellets represent a slipping hazard, scoop and sweep up or use industrial vacuum cleaner.

Water Spill: Recover spilled material and place in suitable containers for recycle or disposal. Consult an expert on disposal of recovered material and ensure conformity to federal, state and local disposal regulations.

Individual precautions: Ventilate the area. Be careful not to slip on loose pellets.

Environmental precautions: Try to prevent the material from entering drains or water courses. Do not contaminate surface water.

7. HANDLING AND STORAGE

Store away from oxidizing materials in a cool, dry place with adequate ventilation. Keep away from open flame and heat. Material will burn if exposed to fire. The suitable storage temperature range between 0 ℃ to 40℃. Material should be stored in packaging similar to that which it was originally shipped in.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

8.1 Control parameters

No additional information available.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Provide personal protective equipment. Ventilation equipment is necessary in workplace.

Respiratory protection: Dust mask recommended.

Eye/face protection: Safety glasses with side shields.

Skin protection: Cloth gloves when working with molten plastic.

Other protection: Smoking, eating, drinking water are prohibited in workplace. Avoid drinking stimulant before work. Changing clothes and showering after work. Prior to employment and periodic physical examination is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Pellets

Physical state: Solid

Color: Semitransparent

Odor: Minimal odor

Melting range/Softening range: 150℃-170℃

Solubility: insoluble in water

Specific gravity (H_2O=1): 0.85~0.98(g/cm^3).

PH: Not available.

Vapour density (air=1): Not available.

Vapour pressure: Not available.

Viscosity: Not available.

Decomposition temperature (N_2, 5%):>270℃.

Auto Ignition Temperature (°C): Not available.

Flammability Limit-Lower (%): Not available.

Flammability Limit-Upper (%): Not available.

Partition Coefficient (N-Octanol/Water): Not available.

Explosive properties: Not available.

Oxidising properties: Not available.

10. STABILITY AND REACTIVITY

10.1. Reactivity

React with active groups such as hydroxyl，carboxyl group, amino group etc. above the melting temperature.

10.2. Chemical stability

Stable and without self-reaction under normal temperature conditions. Decomposition will occur over the recommended processing temperature.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid strong oxidising substances.

10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO_2). Hydrocarbons. Smoke.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

Not available.

Acute Toxicity (Dermal LD50)

Not available.

Acute Toxicity (Inhalation LC50)

Not available.

Skin Corrosion/Irritation:

Not available.

Serious eye damage/irritation:

Not available.

Respiratory or skin sensitisation:

Not available.

Germ cell mutagenicity:

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available.

STOT-single exposure

Not available.

STOT-repeated exposure

Not available.

Aspiration hazard:

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

There are no data on the ecotoxicity of this product.

12.1. Toxicity

Acute Toxicity - Fish

Not available.

Acute Toxicity - Aquatic Invertebrates

Not available.

Acute Toxicity - Aquatic Plants

Not available.

Acute Toxicity - Microorganisms

Not available.

Chronic Toxicity - Fish Early life Stage

Not available.

Short Term Toxicity - Embryo and Sac Fry Stages

Not available.

Chronic Toxicity - Aquatic Invertebrates

Not available.

Acute Toxicity - Terrestrial

Not available.

12.2. Persistence and degradability

Degradability

No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not available.

12.4. Mobility in soil

Henry's Law Constant

Not available.

Surface tension

Not available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6. Other adverse effects

Do not discharge into even any ocean or the waterways or sewer to prevent the aquatic life and birds from taking it.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local environmental regulations.

14. TRANSPORT INFORMATION

According to the international and national laws that regulate road, train, air and water transport, this

product is not considered dangerous. Refer to Section 7 for material handling and storage during transport.

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

Regulation (EC) No. 1907/2006 -Not applicable.

Labeling according to EC regulations: The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. OTHER INFORMATION

Caution do not use Fine-Blend® materials in applications involving implantation within the body;

direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid or blood; or prolonged contact with mucous membranes. Fine-Blend® materials are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. Fine-Blend® will not provide to customers making devices for such applications any notice, certification or information necessary for such medical device use required by FDA regulation or any other statute.

Fine-Blend® makes no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues or fluids.