

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017



**-Make you different**

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

---

### 1.1. Product identifier

**Product name:** Ethylene polymer grafted with Maleic anhydride

**Trade name:** Fine-Blend® CMG5804, CMG5904

### 1.2 Company information

**Manufacturer:** Fine-blend Compatilizer Jiangsu 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.

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017



**-Make you different**

- 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. COMPOSITION/INFORMATION ON INGREDIENTS**

---

Component	Concentration	CAS No.
Ethylene polymer grafted with Maleic anhydride	>99.8 %	9006-26-2
Maleic Anhydride	<0.2 %	108-31-6

---

## **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.

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017



**-Make you different**

---

### 5. FIREFIGHTING MEASURES

---

#### **5.1 Suitable extinguishing media**

Water, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>).

#### **5.2 Firefighting Instructions**

Wear self-contained breathing apparatus (SCBA).

---

### 6. ACCIDENTAL RELEASE MEASURES

---

**Land spill:** Pellet 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 °C to 40°C. Ground transfer equipment to avoid static discharge. 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.

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017

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 with minimal odor

**Physical state:** Solid

**Melting point/range:** 130~150°C

**Solubility:** insoluble in water

**Specific gravity (H<sub>2</sub>O=1):** 0.85~0.98(g/cm<sup>3</sup>)

**PH:** Not available

**Vapour density (air=1):** Not available.

**Vapour pressure:** Not available.

**Viscosity:** Not available.

**Decomposition temperature (N<sub>2</sub>, 5%):** > 270 °C.

**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

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017



**-Make you different**

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<sub>2</sub>). 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**

## Safety Data Sheet

### Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017

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.

# Safety Data Sheet

## Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017

### 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: -

## Safety Data Sheet

### Fine-Blend® PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017

---

#### **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**

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

### **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

## Safety Data Sheet

### Fine-Blend<sup>®</sup> PE-g-MAH

According to Commission Regulation (EU) 2015/830 and OSHA GHS

Version 5.0 9/25/2017



**-Make you different**

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<sup>®</sup> 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.