

# **Material Safety Data Sheet**

**regulation (EG) ,Nr. 1907/2006 and  
regulation (EU) Nr. 2015/830**

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## **1. Chemical and company identification**

### **1.1 High Density Polyethylene reprocessed**

**1.2** Usage: Polymer for manufacturing of plastic products

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## **2. Hazards identification**

**Hazards according to the regulation (EG) no. 1272/2008 of the classification, labeling and packaging of substances and composites**

**2.1 Label information:**  
Towards GHS criteria the product is not subjected of labeling.

**2.2 Classification of substances and composites:**  
Towards GHS criteria the product is not subjected to categorizing.

**2.3 Hazards for human and animals:**  
Slipping danger on spilled material, molten polymer may cause thermal burns.

## **3. Composition/information on ingredients**

**3.1 Chemical definition**  
Manufacturing on the basis of: High Density Polyethylene of secondary plastics  
CAS-number: 9002-88-4

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## **4. First aid measures**

### **4.1 Inhalation:**

In case of inhalation of products of decomposition, immediately remove casualty to fresh air and keep at rest. Call for prompt medical attention.

### **Skin contact:**

After contact with the molten product, immediately cool with tap water. Do not use ice. Seek medical attention if burns occur.

### **Eye contact:**

In case of contact with the eyes, immediately rinse 15 minutes with tap water. Seek medical advice if irritation persists.

### **4.2 Swallow:**

Spill mouth and drink plenty of water. Seek medical advice if afflictions occur.

### **4.3 Advice to doctor:**

Therapy: Symptomatic therapy (decontamination, vital feature), no specific antitoxin known.

## **5. Fire fighting features**

### **5.1 Suitable extinguishing agent:**

Water, dry chemical media, foam, carbon dioxide

### **Particular hazards:**

Carbon dioxide, carbon monoxide, small amounts of other organic fumes, for example aldehyde, acrolein a.o. These mentioned substances can be released on fire.

### **5.2 Special protective gear:**

Wear respirator which is independent of air circulation.

### **5.3 Further indications:**

Fire residues and contaminated extinguishing water has to be disposed according to regulatory regulations.

## **6. Accidental release measures**

### **6.1 Individual related precautions:**

Avoid inhalation, keep away from ignition sources.

### **6.2 Environmental protection measures:**

Avoid input in environment.

### **6.3 Procedure for cleaning or picking up**

Mechanical pick up. Avoid dust. Provide sufficient air.

### **6.4 Further indications:**

Slipping danger due to spilled material.

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## **7. Handling and storage**

### **7.1 Handling:**

Provide applicable ventilation and exhausting systems at the machines. Safety arrangements have to be met at the extraction units, as hazardous substances can accumulate in these units. Please follow the usual safety arrangements.

### **7.2 Fire and explosion protection:**

Avoid dust. Dust with air can evolve into an explosible composite. Provide enough ventilation. Please follow instructions about dust explosions when material will be milled. Please earth equipment, do not smoke, naked flames are not allowed.

### **7.3 Storage:**

Further indications of storage conditions: Avoid humidity. Avoid extensive heat. Avoid ignition sources such as: heat, sparks and open flames.

## **8. Personal protection and exposure controls**

### **8.1 Components with limited work place related values those needed to be controlled are not applicable.**

#### **Additional advice for design of technical equipment:**

See point 7.

**Additional limit values for explosion whilst manufacturing are not applicable.**

### **8.2 Personal protective gear:**

#### **Respiratory protection:**

Respiratory protection for dust. Particle filter with detention storage for solid particles. (for example EN 143 or 149, type P1 or FFP1).

#### **Hand protection:**

Whilst handling with molten product use additional heat protection gloves (EN 407), for example firm fabric or leather.

#### **Eye protection:**

Safety glasses with side protection (Spectacle frame) (for example EN 166).

#### **Body protection:**

Choose body protection dependent on job and possible influence , for example pinny, boots, protective overall (EN 14605 for injection moulders or EN ISO 13982 for dust).

#### **Generally safety and hygiene measures:**

Avoid contact with molten product. Avoid inhalation of dust, haze and mist. Eye douches and emergency showers must be within easy reach. Please follow common precautions in dealing with chemicals. Do not smoke.

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## **9. Physycal and chemical properties**

- 9.1 Form:**  
Pellet
- Colour:**  
Adjustable
- Odor:**  
Faint
- Melting point:**  
125-145 ° C
- Flashpoint:**  
Not applicable
- Explosion limit:**  
According to the composition of the product and the experience with this product, a hazard will not be expected if material is dealt appropriately.
- Ignition temperature (DIN 51794):**  
> 400 ° C
- Self-ignitability:**  
Not self igniting
- Supporting combustion properties:**  
Not supporting combustion
- Decomposition temperature:**  
> 300 ° C
- Density:**  
0,94-0,98 g/cm<sup>3</sup> (20 °C, 1 bar)
- Bulk density:**  
450-650 kg/m<sup>3</sup> (20 °C, 1 bar)
- Water soluble:**  
Insoluble

## **10. Stability and reactivity**

- 10.1 Conditions to be avoided:**  
Avoid extensive heat. Avoid ignition sources: heat, sparks and open flames.
- 10.2 Thermal decomposition:**  
At about 300 °C. To avoid decomposition do not overheat.
- 10.3 Substances to avoid:**  
Oxidiser.
- 10.4 Dangerous reactions:**  
Product is chemically stable.
- 10.5 Dangerous decomposition:**  
At room temperatures there are no dangerous products of decomposition known. If material will be over heated gaseous products of decomposition such as monomers, carbon black, carbon monoxide, inflammatory gas and vapours can be released.

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## **11. Toxicological information**

### **11.1 Appraisal of severe toxicity:**

Contact with molten product can cause burn.

### **Appraisal of stimulation effect:**

No stimulation effect will occur if material is used in accordance with regulations.

### **Further indications:**

No health effects occur if material is used in accordance with regulations.

## **12. Ecological information**

### **12.1 Ecotoxicity**

Appraisal of toxicity:

With the utmost probability not harmful to aquatic organisms.

The product was not tested. Indication from the structure of the product only.

### **12.2 Persistence and degradability**

Appraisal of degradation and elimination (H<sub>2</sub>O):

The product is biologically not decomposable. The insoluble particles can be eliminated in defecators.

### **12.3 Appraisal of bioaccumulation potential:**

Avoid contamination in environment. Due to consistency and insolubility in water, a bioavailability is not presumable.

### **12.4 Other ecotoxicological advise:**

Due to insolubility in water no declaration can be made.

## **13. Indications for disposal**

**13.1** Material has to be brought to an incinerator or to an eligible disposal site in strict accordance to the local authority regulations.

### **Disposal code towards European waste catalogue (AVV):**

070213

### **Disposal code towards Austrian waste catalogue:**

57129

### **Uncleaned packaging:**

Packaging which is not contaminated can be disposed in recycling.

## **14. Indications for transport**

### **14.1 Overland transport:**

ADR – No hazmat in terms of transport regulations.

RID – No hazmat in terms of transport regulations.

### **14.2 Inland vessel transport:**

ADNR – No hazmat in terms of transport regulations.

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**14.3 Seagoing vessel:**  
IMDG - No hazmat in terms of transport regulations

**14.4 Airotransport:**  
IATA/ICAO - No hazmat in terms of transport regulations.

## **15. Legislation**

**15.1 Regulations of the European Union (identification)/national regulations:**  
Towards EC regulations the product is not subjected of labeling.

**15.2 Further regulations:**  
Water hazard class (appendix 1 of VwVwS (Germany)): (nwg) Not water hazardous.  
Please take notice of the clauses of the employee protection act (Austria) and the associated acts as amended from time to time.

## **16. Further statements**

### **Änderungen gegenüber der letzten Version**

Allgemeine Überarbeitung (Verordnung (EU) Nr. 2015/830)

**Angelegt:** 07.06.2010

### **Vorschriften**

REACH-Verordnung (EG) Nr. 1907/2006, zuletzt geändert durch Verordnung (EU) 2015/830  
CLP-Verordnung (EG) Nr. 1272/2008, zuletzt geändert durch die Verordnung (EU) Nr. 1297/2014

### **Internet**

<http://www.baua.de>  
<http://publikationen.dguv.de>

In addition to the indications in the safety data sheet we point to the specified technical product information. The indications in this safety data sheet are based on our current knowledge and experience and describe the product in respect of safety requirements. The data is not to be understood as a specification of the quality of the product. An agreed specification or the applicability of the product for a certain application cannot be deduced from our statements in this safety datasheet. Any trade mark rights as well as existing laws and regulations have to be followed in own responsibility of the recipient of the product. RSH Polymere assumes no responsibility for behavior of traders or processors, which are not in strict conformity with the above mentioned.