

**Abrasive – natural**

Printdate: 15.04.2012

Part number: VCSO-SIPL-001

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**1. Identification of the Substance/Mixture and of the Company****1.1 Identification/Product Name**

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**1.2 Use of the Substance/Mixture**

Polymer granules in different grain sizes used as blasting abrasive

**1.3 Manufacturer**SimonPlast GbR  
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D-42697 SolingenPhone: +49 (0) 212 5997256  
Fax: +49 (0) 212 5997145  
E-Mail: [info@simonplast.de](mailto:info@simonplast.de)  
Internet: <http://www.simonplast.de>**2. Hazard Identification****2.1 Classification of the substance or mixture****GHS-Classification:**

The substance is not classified as dangerous according to Directive 1272/2008 (EG)

**2.2 Labelling elements****Information about the labeling:**

The product is not subject to classification

**2.3 Other hazards**

The product does not pose dangers to people or the environment when used according to regulations. Mechanical stress may generate dust due to abrasion. Dust could cause damage by mechanical actions. There is danger of skin burns caused by hot melt. Danger of slipping on the spilled product.

**3. Composition/Information on Ingredients****3.1 Components****Chemical:**

Polyamid 6, CAS-NO. 25038-54-4

**Other information:**

The substance is exempt from any mandatory registration in accordance with the REACH-regulations 1907/2006 (EG). The ingredients in this product are embedded in a impermeable matrix and therefore not bioavailable.

Hazardous components are embedded in a polymer matrix and are therefore a negligible risk under normal conditions of use and processing. Additives included in this product pose no risk to health aslong as they are not liberated(dust, smoke billow of hot melt)

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**4. First Aid Measures****4.1 General Information**

Place insured person out of danger zone to fresh air immediately. Ensure quiet, warmth, and provide resuscitation if necessary. If necessary contact medical advice.

**After inhalation**

After inhalation of degradation products bring the concerned person to fresh air and place in a resting position. Consult physician if problems persist.

**After skincontact**

No special measures required.

**After eyecontact**

Do not rub if foreign body in eye. Wash with plenty of water. If irritation persists, consult physician.

**After oral intake**

No special measures required. Drink water as a precaution.

**4.2 Most important symptoms and effects, both acute and delayed**

Mechanical eye irritation

**4.3 Advice to physician:**

No specific advice. Treat according to symptoms present.

**5. Fire-fighting Measures****5.1 Suitable Extinguishing Media**

Spraywater, Waterdust, Extinguishing powder, Foam, Carbon dioxide (CO2)

**5.2 Hazards, Combustion Products/Gases**

During the combustion or thermal decomposition of the product, health damaging and irritating gases and vapours are liberated (e.g. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). hydrocyanic acid). Possible formation of explosive mixtures of dust/air. Keep away from heat/sparks/open flames/hot surfaces. Do not smoke. The danger of explosion refers only to the dust and not to the product itself in his granule form.  
a relatively large amount of hot melt is susceptible to spontaneous combustion. quenching in water helps.

**5.3 Special Protective Equipment required**

In the event of fire: Wear self-contained breathing apparatus.

**Additional Information**

Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

Remove according to the regulations. Burn after ignition without external heat source. Adapt extinguishing measures to suit the environment.

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**6. Accidental Release Measures****6.1 Personal Precautions**

High risk of slipping due to leakage/spillage of product. Ensure sufficient ventilation.  
Avoid generation of dust. Do not inhale dust. If there is danger of an exothermic decomposition (temperature rise, formation of smoke or dust) cool the melt in a water bath.

**6.2 Environmental protection measures**

The product should not be allowed to enter drains, water courses or the soil.  
Prevent from contaminating surface water.

**6.3 Procedure for cleaning and recollection:**

Take up mechanically. Use only explosion protected devices.  
Dispose of contaminated material as waste according to chapter 13.

**6.4 Reference to other sections**

For dispose see section 13.

**7. Handling and Storage****7.1 Precautions for safe handling****Precautions for safe handling**

In the case of mechanical processing or regranulation: Avoid dust generation and damp dust.  
Do not inhale dust. Do not inhale fumes. To keep the contact with melt or smoke billows at minimum and comply with exposure limit values in workplace atmosphere use suitable ventilation systems.

**Precautions against fire and explosion**

Take precautionary measures against static discharges. Usual preventive fire protection.

**Further information on handling**

Melt or overheating of the material: Danger of an exothermic decomposition.  
During mechanical processes provide device suitable for extracting dust.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage facilities and containers**

Keep container tightly closed and dry. Protect against contaminants. Take precautionary measures against static discharges.

**Storage class TRGS 510 (Germany)****7.3 Specific end uses**

Blasting processes

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**8. Exposure Controls/Personal Protection****8.1 Control parameters**

Occupational exposure limits (TRGS 900)

CAS-No.	Description	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/m <sup>3</sup>	Peak limitation category	Typ
-	General dust limits, alveolar fraction		3		2(II)	
-	General dust limits, respirable fraction		10		2(II)	

**8.2 Limitation and monitoring of exposure****Limitation and monitoring of occupational exposure**

Open handling requires the use of localized extractor. Do not inhale dust or decomposing products.

**Protection and hygienical measures**

Wash hands before breaks and at the end of work, do not eat or drink while work.

**Respiratory protection**In case of dust formation:

Suitable dust mask with an appropriate filter (EN143), Typ P1 or FFP1 (half mask or quarter mask: Maximum application concentration: P1-Filter up to 400% of the limit value; P2-Filter up to 1000% of the limit value; P3-Filter up to 3000% of the limit value.)

In case of vapor formation:

Gas filters (DIN EN 141). TYP-A (Filtertypes: A,B,E,K. Class 1: Highest permissible concentration of pollution in air = 1000 ml/m<sup>3</sup> (0.1 Vol.-%); Class 2 = 5000 ml/m<sup>3</sup> (0.5 Vol.-%); Class 3 = 10000 ml/m<sup>3</sup> (1.0 Vol.-%).)

**Hand Protection**

During blasting work: Protective gloves made out of plastic or leather.  
Preventive skin protection made from oil-in-water emulsion.

**Eye Protection**

During blasting work: Tightly sealed safety glasses.

**Skin Protection**

During blasting work: Work clothing that covers arms and legs.

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**9. Physical and Chemical Properties****9.1 Conditions for safe storage, including any incompatibilities**

Physical state:	Solid
Colour:	Natural
Odour:	None
pH value:	Not applicable

**State change**

Melting point:	~215-225°C
Boiling point:	No data available
Flash point:	>424°C

**Testing standard**

ISO 3146

**Flammability**

Solid:	No data available
Gaseous:	

**Explosion hazards**

Lower explosion limit:	No data available
Upper explosion limit:	No data available

**Auto-ignition temperature**

Solid:	No data available
Gaseous:	No data available

**Oxidising properties**

Steam pressure:	No data available
Dense:	1.08 – 1.60 g/cm <sup>3</sup>
Water solubility:	No data available
Solubility in other solvents:	No data available
Partition coefficient:	No data available
Dynamic viscosity:	Not applicable
Kinematic viscosity:	Not applicable
Vapour density:	No data available
Evaporation rate:	No data available

ISO 1183

**9.2 Other information**

Decomposition temperature:	>300°C
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**10. Stability and Reactivity****10.1 Reactivity**

No dangerous reactivity under normal conditions

**10.2 The chemical stability**

Stable under normal conditions

**10.3 Possibility of hazardous reactions**

No hazardous reactions known

**10.4 Conditions to be avoided**

Stable under normal conditions

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**10.5 Incompatible materials**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion. While longer timeperiods avoid to heat over the processing limit.

**10.6 Hazardous decomposition products**

The thermal decomposition of the substance (~340°C) through overheating while processing, in case of fire or smouldering may release unhealthy, gases and vapours like Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). hydrocyanic acid.

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**11. Toxicological information****11.1 Information on toxicological effects****Practical expertise**

Relevant observations

If the product is used according to the directions for use, no threat to people or the natural environment is expected.

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**12. Ecological Information****12.1 Toxicity**

The product has not been tested. Due to the consistency of the product no disperse distribution in the environment is possible. Negative ecological effects are not to be expected therefore after today's level of knowledge. The product does not dissolve in water. Behaviour in sewage processing plants: The product can be mechanically separated

**12.2 Persistence and degradability**

The product is not biodegradable.

**12.3 Bioaccumulation potential**

No information available.

**12.4 Mobility in the soil**

Non water-soluble. The product shows little mobility in the ground.

**12.5 Results of the PBT and vPvB assessment**

The substance does not match the criteria for a classification as PBT or vPvB

**12.6 Other adverse effects**

If the product is used according to the directions for use, no threat to people or the natural environment is expected. When ingested by animals the product can block the colon mechanically or give a wrong satiety feeling that leads to starvation.

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**13. Disposal Considerations****13.1 Waste treatment methods**

Do not allow the product to enter the drainage system or water. Disposal must be made according to official regulations. The listed waste number according to the European Waste Code (EWC) is a recommendation. A final decision must be made in agreement with the regional waste disposal company. The product and packaging can be disposed of with domestic waste, after consulting and in accordance with official local regulations.

**Wastekey product**

120117 Wastes from shaping and physical and mechanical surface treatment of metals and plastics; waste blasting material other than those mentioned in 12 01 16

**Wastekey product residues**

120117 Wastes from shaping and physical and mechanical surface treatment of metals and plastics; waste blasting material other than those mentioned in 12 01 16

**Disposal of uncleaned packings and recommended cleaning**

Contaminated packings have to be emptied completely (water with cleaning agent); After cleaning they can be recycled.

**14. Transport information****Overlandtransport (ADR/RID)**

**14.1 UN-Number** -  
**14.2 UN proper shipping name** -  
**14.4 Transport hazard class(es)** -  
**14.4 Packing group** -

Other applicable information (overland transport)

Not a hazardous material with respect to these transportation regulations.

**Waterways Transport (ADR/RID)**

Other applicable information (waterways transport)

Not a hazardous material with respect to these transportation regulations.

**Marine Transport (ADR/RID)**

Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations

**Air Transport (ADR/RID)**

Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

According to regulation EC No. 1907/2006

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**14.5 Risk to the environment.**

No risk to the environment

**14.6 Special precautions for user**

See section 7

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**National Regulations:**Water hazard class:** Generally not hazardous for water.**Status:** WGK- selfassessment**Additional Information**

This safet data sheet is also valid for regrinds handled under this name.

**15.2 Special precautions for user**

No substance safety assessment is required for this product

**16. Other information****Changes in this version:**

Version 1.00 – 15.04.2012 - Initial creation

**Further details:**

The data mentioned in the present safety data sheet correspond to our latest knowledge and experience and may be used to precise safety requirements for the different products and are not meant to guarantee definite characteristics