

## Safety Data Sheet according to Regulation 1907/2006/EG

### 1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation:

**SCHULAMID® 6, SCHULAMID® 66 - FR / FR2 / FR2 A**

**Use of the substance / preparation:**

Granules for manufacturing plastics parts (injection molding / extrusion).

**Company / undertaking identification:**

A. Schulman GmbH, Hüttenstraße 211, D - 50170 Kerpen

Telephone 02273 / 561-0, Fax 02273 / 561-350

**Emergency telephone / Office for advice:**

**Advisory office in case of poisoning:**

Tel.: +49 (0) 228 / 19240 (Bonn)

**Telephone number of the company in case of emergencies:**

Tel.: 02273 / 561-0

### 2. Hazards identification

**3.1 To people:**

Preparation is not classified as hazardous in the sense of EG-directives / GefStoffV and no hazardous product.

### 3. Composition / information on ingredients

Polyamide - flame retardants – if so stabilizers, additives, pigments / colors

2.1 Chemical name	%-content	symbol	R-phrases	CAS	EINECS, ELINCS
Carbon, black	0,01 - 5	---	---		215-609-9

Texts of R-Phrases see point 16.

### 4. First aid measures

**4.1 Inhalation:**

Remove person from danger area. Supply person with fresh air and consult doctor according to symptoms.

**4.2 Eye contact:**

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

**4.3 Skin contact:**

Wash thoroughly with soap and water. In the event of contact with the hot product wash off with cold water.

Cooled product should not be removed from the skin. Medical attention necessary.

**4.4 Ingestion / Deglutition:**

Rinse the mouth thoroughly with water, do not induce vomiting. Medical attention necessary.

Keep Datasheet available.

### 5. Fire-fighting measures

**5.1 Suitable extinguishing media:**

Water jet spray / extinction powder. In case of large fire Water jet spray / Alcohol resistant foam.

**5.2 Extinguishing media which must not be used for safety reasons:**

Not checked.

### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

In case of fire the following can develop: Fume, toxic gases, carbon oxides, nitrogen oxides, org. Crack products, Caprolactam

### 5.4 Special protective equipment for fire-fighters:

Protective respirator with independent air supply, According to size of fire full protection if necessary.

### 5.5 Further Information:

Dispose of contaminated extinction water according to official regulations.

## 6. Accidental release measures

### 6.1 Personal precautions:

Ensure sufficient ventilation, avoid build up of dust, contact with eyes / skin. Caution – risk of slipping.

### 6.2 Environmental measures:

If leakage occurs, dam up, prevent surface and ground-water infiltration, as well as ground penetration.

### 6.3 Methods for cleaning up:

Collect mechanically and dispose of according to point 13. Avoid build up dust, allow the hot product to solidify.

## 7. Handling and storage

### 7.1 Handling, tips for safe handling:

Ensure good ventilation. Suction measures at the workplace or on the processing machines required, avoid build up of dust. Caution – note danger of explosive-dust! Keep away from sources of ignition – do not smoke. Guard against electrostatic charge. Wash hands before breaks and at end of work, general hygiene measures for the handling with chemicals are applicable. Observe directions on label and instructions for use.

In case of contact with heated material, avoid contact with eyes or skin and inhalation.

During decanting ground appliance!

### 7.2 Storage, requirements for storage rooms and containers:

Not to be stored in passageways or stairways, store product only unopened and in original package.

## 8. Exposure controls / personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the OES, MEL of AGW values, suitable breathing protection should be worn.

Chemical name	%-content	AGW-, OES, MEL	BGW
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Additives are encapsulated in the product and should not result in exposure under normal handling conditions.  
 10 mg/m<sup>3</sup> (inhalable dust), 4 mg/m<sup>3</sup> (respirable dust) (general dust limit value).

During processing:

Carbon, black:	0,01 - 5	---	
Caprolactam			20 ppm (86 mg/ m <sup>3</sup> ) (dust and vapor) (EG)

### 8.1 Respiratory protection:

Breathing mask with fine dust filter necessary (EN 143), Filter P EN 141, On vapor formation Filter A (EN 141).

### 8.2 Hand protection according to operation:

Insulating gloves EN 407 (heat) or leather gloves.

### 8.3 Eye protection tight fitting protective goggles with side protection (EN 166):

According to operation face protection (EN 344).

### 8.4 Skin- and body protection: Protective working garments

(e. g. safety shoes EN 344, long sleeved protective working garments):

According to operation apron, boots (EN 347).

Additional information on hand protection: No tests have been performed. This selection for preparations is in calculable and has to be proofed before using. The breakthrough times, permeation rates and degradation into account and further quality criteria (information by manufacturers) are to be followed.

## 9. Physical and chemical properties

Physical condition:	Solid, pellets
Color:	Depending on specification
Odor:	Characteristic
Melting point / melting range (in ° C):	Ca. 215
Flash point (in °C):	> 400
Flammability (solid, gaseous):	Not reasonable applicable
Minimum limit of explosion:	Not reasonable applicable
Maximum limit of explosion:	Not reasonable applicable
Vapor pressure:	Not reasonable applicable
Relative density (g/ml):	Ca. 1,10 - 1,15
Bulk density:	No data available
Water solubility:	Insoluble
PH-value:	Not reasonable applicable

## 10. Stability and reactivity

### 10.1 Conditions to avoid:

Stable when handled and stored correctly, avoid strong heating.

### 10.2 Materials to avoid:

Avoid contact with strong acids / chemicals / alkalis / oxidants.

### 10.3 Hazardous decomposition products:

See point 5.

## 11. Toxicological information

### 11.1 Acute toxicity and immediate effects:

No degrading effect (not checked, but conventional calculated).

### 11.2 Retarded and chronic effects:

No degrading effect (not checked, but conventional calculated).

### 11.3 Further information:

No classification according to calculation procedure. The following may occur: Irritation of the eyes, inhalation of dust causes irritation, irritant effect to damaged skin. Repeated exposure to ground / glass fiber-reinforced material can result in penetration of particles into affected the skin. Hazardous gases / dust are set free when processing product (see point 5).

## 12. Ecological information

Self classification:	No
Persistence and degradability:	It is expected that this polymer which is insoluble in water behaves inertly in the environment.
Behavior in sewage plants:	Mechanical precipitation possible.
Aquatic toxicity:	No classification.
Ecological toxicity:	No classification.

## 13. Disposal considerations

### 13.1 For the material / preparation / residue:

EC disposal code no.: 07 02 13 - waste plastic. The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. Recommendation: Pay attention to local and national official regulations, Implement substance recycling. E.g. dispose at suitable refuse site, suitable incineration plant.

### 13.2 For contaminated packing material:

Pay attention to local and national official regulations, cleaned packaging to recycling.

## 14. Transport information

**General statements:**

No national and international transport regulations for carrying on road, railway, sea and airfreight.

**Additional information:**

Non-dangerous material according to transport regulations.

## 15. Regulatory information

**Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC und 1999/45/EC):**

This product is not classified according to Dangerous Product Regulations incl. EC Guidelines.

Symbols / Indications of danger:	Not applicable.
R-phrases:	---
S-phrases:	---
Additions:	None.
Observe restrictions:	None.
Water pollution class:	Not hazardous to water.

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany):	11/13
Revised points:	---

**Legend:**

OES = Occupational exposure standard; MEL = Maximum exposure limit; BMGV = Biological monitoring guidance value; AGW = Limit for work place; (Germany); BGW = Biological tolerance for work place (Germany); WGK = water hazard class (Germany), VOC-CH = Volatile organic compounds (VOCV - Switzerland); AOX = Adsorbable organic halogen compounds; VwVwS = Administrative Order relating to substances hazardous to water (Germany). Furthermore is to operate according to national laws and regulations.

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

Information will be provided by

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