

# Safety Data Sheet

according to 1907/2006/EC, Article 31



Printing date 04.06.2008

Revision: 04.06.2008

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

- **Product details**
- **Trade name:** Grilamid LC-3 H schwarz
- **Article number:** 1273008
- **Application of the substance / the preparation**  
Thermoplastic / polymer preparation in form of cylindric granulates for injection moulding application.
- **Manufacturer/Supplier:**  
EMS-CHEMIE (Deutschland) GmbH, Warthweg 14, D-64823 Gross-Umstadt  
Tel. D+ (0) 6078 / 783-0, Fax D+ (0) 6078 / 783-416
- **Further information obtainable from:**  
Abteilung Umweltschutz, Arbeits- u. Produkte-Sicherheit (U+S)  
Department of environmental protection, work and product safety (U+S)
- **Information in case of emergency:**  
EMS-CHEMIE (Deutschland) GmbH, Warthweg 14, D-64823 Gross-Umstadt  
Tel. D+ (0) 6078 / 783-0, Fax D+ (0) 6078 / 783-416
- **Specialist for Material Safety Data Sheets (e-mail):** [Herbert.Koenig@de.emsgrivory.com](mailto:Herbert.Koenig@de.emsgrivory.com)

## 2 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:** Not applicable.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **GHS label elements**

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:**  
Polyamide 12  
+ additives  
+ reinforcement matter  
+ colouring pigments
- **Dangerous components:** none

## 4 First-aid measures

- **General information:** No special measures required.
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:**  
After contact with the molten product, cool rapidly with cold water.  
Do not pull solidified product off the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Use fire extinguishing methods suitable to surrounding conditions.  
Water, water spray, water with gel-additive, foam.

(Contd. on page 2)

GB

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(Contd. of page 1)

- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Under certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx)  
Hydrogen cyanide (HCN)
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Not required.  
Particular danger of spilled product.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Allow to solidify. Pick up mechanically.
- **Additional information:** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
No special measures required.  
Ensure that suitable extractors are available on processing machines
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
Observe the limit values of dust!
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Avoid skin contact with the liquefied material.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:** Not required.
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material** Void.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing

GB

(Contd. on page 3)

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(Contd. of page 2)

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Solid (granulate / granules)
<b>Colour:</b>	Black
<b>Odour:</b>	Nearly odourless

### · Change in condition

**Melting point/Melting range:** 160 - 240 °C  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** > 1,0 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:** Insoluble.

## 10 Stability and reactivity

### · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.  
 To avoid thermal decomposition do not overheat.

· **Dangerous reactions:** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

### · Primary irritant effect:

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

### · Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## 12 Ecological information

### · Information about elimination (persistence and degradability):

· **Other information:** The product is difficultly biodegradable.

### · Additional ecological information:

· **According to the formulation contains the following heavy metals from the EU guideline NO. 76/464 EC:**

In general none

· **General notes:** Generally not hazardous for water

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(Contd. on page 4)

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(Contd. of page 3)

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
 Contact waste processors for recycling information.  
 Contact manufacturer for recycling information.  
 Can be reused after reprocessing.  
 Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Waste disposal key:**  
 EWC: 07 02 13 Plastics rubbish (plastics industry)  
 EWC: 12 01 05 Plastics Particles (shaping)  
 EWC: 16 01 19 Plastics (automobiles, wrecks)  
 EWC: 20 01 39 Plastics (domestic rubbish)  
 possible: 191204, 170203, 020104  
 Applicable key: to determine

### · European waste catalogue

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic
12 00 00	WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 00	wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 05	plastics shavings and turnings
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 00	end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 19	plastic

- **Uncleaned packaging:** see Recommendation
- **Recommendation:** Packaging may be reused or recycled after cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## 14 Transport information

### · Land transport ADR/RID (cross-border)

- **ADR/RID class:** -
- **Item:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Description of goods:** -

### · Maritime transport IMDG:

- **IMDG Class:** -
- **Marine pollutant:** No

### · Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA Class:** -

(Contd. on page 5)

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(Contd. of page 4)

· UN "Model Regulation": -

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.  
Observe the general safety regulations when handling chemicals.

· **National regulations:**

· **Waterhazard class:** Generally not hazardous for water.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Department issuing MSDS:**

Department of environmental protection, work and product safety (U+S)

· **Contact:**

Dr. Herbert Koenig, Produktesicherheit

Tel. ++49 (0) 6078 / 783-147 Fax ++49 (0) 6078 / 783-190

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement internationale concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

· \* **Data compared to the previous version altered.**

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