

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 03/25/2010

Reviewed on 02/11/2010

1 Identification of substance

. Product details

. Trade name: GRILTEX D 1500A P 1

. Article number: 163430

. Manufacturer/Supplier:

EMS-GRILTECH CH-7013 Domat/Ems

Tel.+41 81 632 7202,Fax +41 81 632 7402

info@emsgriltech.com

. Emergency information:

EMS-CHEMIE AG CH-7013 Domat/Ems, Phone:++41 (0) 81-632-6111 Fax:++41 (0) 81 - 632-7401

Poison centre Switzerland Zürich, Phone:++41 (0) 1-251 51 51

USA : Chemtrec hotline 1-800-424-9300

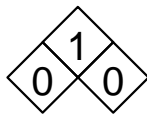
2 Hazards identification

. Information pertaining to particular dangers for man and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

. Classification system:

. NFPA ratings (scale 0 - 4)



Health = 0

Fire = 1

Reactivity = 0

. HMIS-ratings (scale 0 - 4)

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0

Fire = 1

Reactivity = 0

. GHS label elements Void

3 Composition/Data on components

. Chemical characterization

. Description: Copolyamide

. Dangerous components: Void

4 First aid measures

. General information: No special measures required.

. After inhalation: Seek medical treatment in case of complaints.

. After skin contact:

Generally the product does not irritate the skin.

After contact with the molten product, cool rapidly with cold water.

Do not pull solidified product away from the skin.

. After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

. After swallowing: If symptoms persist consult doctor.

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5 Fire fighting measures

- . **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **Special hazards caused by the material, its products of combustion or resulting gases:**
In case of fire, the following can be released:
Carbon monoxide (CO)
Hydrogen cyanide (HCN)
- . **Protective equipment:** No special measures required.

6 Accidental release measures

- . **Person-related safety precautions:** Not required.
- . **Measures for environmental protection:** No special measures required.
- . **Measures for cleaning/collecting:** Pick up mechanically.
- . **Additional information:** No dangerous substances are released.

7 Handling and storage

- . **Handling:**
- . **Information for safe handling:** No special measures required.
- . **Information about protection against explosions and fires:**
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.
- . **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 and personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.

- . **Components with limit values that require monitoring at the workplace:**

105-60-2 epsilon-caprolactam (1-<2%)

REL	Short-term value: 3* 3** mg/m ³ , 0.66* ppm
	Long-term value: 1* 1** mg/m ³ , 0.22* ppm
	*Caprolactam vapor **Caprolactam dust
TLV	5 l ppm

- . **Personal protective equipment:**
- . **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
- . **Breathing equipment:** Not required.
- . **Protection of hands:** Protective gloves
- . **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**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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. **Eye protection:** Safety glasses

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9 Physical and chemical properties

. General Information

Form:	Powder
Color:	Whitish
Odor:	Nearly odorless

. Change in condition

Melting point/Melting range: 75-135°C (167-275°F)
Boiling point/Boiling range: Undetermined.

. **Flash point:** Not applicable.. **Auto igniting:** Product is not selfigniting.. **Danger of explosion:** Risk of dust explosion. **Density at 20°C (68°F):** >1 g/cm³

. Solubility in / Miscibility with Water:

Insoluble.

10 Stability and reactivity

- . **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- . **Dangerous reactions** No dangerous reactions known.
- . **Dangerous products of decomposition:**
At temperatures above 250°C, depolymerization and the release of starting monomers can arise.

11 Toxicological information

- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** No irritant effect.
- . **Sensitization:** No sensitizing effects known.
- . **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- . **General notes:** Generally not hazardous for water

13 Disposal considerations

- . **Product:**
- . **Recommendation:**
On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste.

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- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- . **UN "Model Regulation":** -
- . **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- . **Sara**

- . **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

- . **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- . **TSCA (Toxic Substances Control Act):** All ingredients are listed.

- . **Proposition 65**

- . **Chemicals known to cause cancer:**

None of the ingredients is listed.

- . **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- . **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- . **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- . **Carcinogeny categories**

- . **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- . **IARC (International Agency for Research on Cancer)**

105-60-2 | epsilon-caprolactam

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- . **NTP (National Toxicology Program)**

None of the ingredients is listed.

- . **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- . **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- . **Product related hazard informations:**

The product is not subject to identification regulations according to directives on hazardous materials.

- . **National regulations:**

- . **Classification according to VbF:** entfällt

- . **Water hazard 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:** Environment and safety department(U+S)

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. Abbreviations and acronyms:

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

. * Data compared to the previous version altered.

USA