

## Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 10/30/2009

Reviewed on 10/30/2009

### 1 Identification of substance

**. Product details**

**. Trade name:** GRILAMID 1SVX-50 H natural

**. Article number:** 210073

**. Manufacturer/Supplier:**

EMS-CHEMIE AG CH-7013 Domat/Ems  
Tel.:+41 81 632 79 80, Fax:+41 81 632 74 01  
welcome@emsgrivory.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

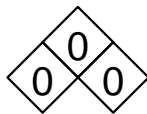
### 2 Hazards identification

**. 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 = 0  
Reactivity = 0

**. HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	0
REACTIVITY	0

Health = 0  
Fire = 0  
Reactivity = 0

**. GHS label elements** Void

### 3 Composition/Data on components

**. Chemical characterization**

**. Description:**

Polyamide 1010  
Glass reinforced

**. Dangerous components:** Void

### 4 First aid measures

**. General information:** No special measures required.

**. After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.  
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 away from the skin.

**. After eye contact:**

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

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- . **After swallowing:** If symptoms persist consult doctor.

### 5 Fire fighting measures

- . **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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:** 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 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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- . **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:**  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- . **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.
- . **Eye protection:** Safety glasses

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## 9 Physical and chemical properties

### . General Information

<b>Form:</b>	Granulate
<b>Color:</b>	According to product specification
<b>Odor:</b>	Odorless

### . Change in condition

**Melting point/Melting range:** 190-210°C (374-410°F)  
**Boiling point/Boiling range:** Undetermined.

**. Flash point:** Not applicable.

**. Auto igniting:** Product is not selfigniting.

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

**. Density at 20°C (68°F):** 1.4-1.8 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 according to specifications.
- . **Dangerous reactions** No dangerous reactions known.
- . **Dangerous products of decomposition:** No dangerous decomposition products known.

## 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:** Hand over to hazardous waste disposers.
- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- . **DOT regulations:**
- . **Hazard class:** -

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- . **Maritime transport IMDG:**
- . **Marine pollutant:** No
- . **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.

### . 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.

### . **Carcinogenicity categories**

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

None of the ingredients is listed.

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

None of the ingredients is listed.

#### . **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:**

Observe the general safety regulations when handling chemicals.

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

### . **National regulations:**

#### . **Classification according to VbF:** Void

#### . **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)

### . **Contact:**

Josef Eder, Produktsicherheit

Tel +41 81 632 7731 Fax +41 81 632 7470 Josef.Eder@emsservices.ch

### . **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

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DOT: US Department of Transportation  
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)

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