

**Safety data sheet**  
according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 11

Revision: 09.07.2018

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- . **1.1 Product identifier**
  - . **Trade name:** GRIVORY GV-4H BLACK 9915
  - . **Article number:** 123714
- . **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.
- . **Application of the substance / the mixture** Polymeric material in granular form for thermoplastic processing
- . **1.3 Details of the supplier of the safety data sheet**
  - . **Manufacturer/Supplier:**

EMS-CHEMIE AG CH-7013 Domat/Ems  
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65  
E-Mail: welcome@emsgrivory.com
  - . **Informing department:**

Abteilung Umweltschutz und Sicherheit  
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65  
E-Mail: produktsicherheit@emsservices.ch
- . **1.4 Emergency telephone number:**

EMS-CHEMIE AG CH-7013 Domat/Ems  
Phone: +41 81 632 78 88 Fax: +41 81 632 76 65  
Poison Centre Switzerland Zürich Phone: +41 44 251 51 51

**SECTION 2: Hazards identification**

- . **2.1 Classification of the substance or mixture**
  - . **Classification according to Regulation (EC) No 1272/2008**

The product is not classified as hazardous to health or environment according to the CLP regulation.
- . **2.2 Label elements**
  - . **Labelling according to Regulation (EC) No 1272/2008** Void
  - . **Hazard pictograms** Void
  - . **Signal word** Void
  - . **Hazard statements** Void
- . **2.3 Other hazards**
  - . **Results of PBT and vPvB assessment**
    - . **PBT:** Not applicable.
    - . **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

- . **3.2 Chemical characterisation: Mixtures**
  - . **Description:**

Polyamide  
Additives / Modifiers
  - . **Dangerous components:** Void
  - . **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- . **4.1 Description of first aid measures**
  - . **General information** No special measures required.
  - . **After inhalation** Supply fresh air; consult doctor in case of symptoms.
  - . **After skin contact**

With prolonged skin irritation, consult a doctor.

(Contd. on page 2)

GB

## Safety data sheet

### according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 11

Revision: 09.07.2018

**Trade name: GRIVORY GV-4H BLACK 9915**

(Contd. of page 1)

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

Do not pull solidified product away from the skin.

Seek medical treatment.

**. After eye contact**

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

**. After swallowing** In case of persistent symptoms consult doctor.

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

No further relevant information available.

**. 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

**. 5.1 Extinguishing media**

**. Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

**. 5.2 Special hazards arising from the substance or mixture**

Can be released in case of fire:

Carbon monoxide (CO)

Nitrogen oxides (NO<sub>x</sub>)

Carbon dioxide (CO<sub>2</sub>)

Hydrogen cyanide (HCN)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**. 5.3 Advice for firefighters**

**. Protective equipment:** Use self-contained breathing apparatus and protective fire fighting clothing.

**. Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

**. 6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

**. 6.2 Environmental precautions:** No special measures required.

**. 6.3 Methods and material for containment and cleaning up:** Collect mechanically.

**. 6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

**. 7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

Extractors are required on all machines used for thermal processing.

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be removed regularly.

**. Information about protection against explosions and fires:** Protect against electrostatic charges.

**. 7.2 Conditions for safe storage, including any incompatibilities**

**. Storage**

**. Requirements to be met by storerooms and containers:** No special requirements.

**. Information about storage in one common storage facility:** Not required.

**. Further information about storage conditions:** Protect from humidity and keep away from water.

**. Storage class** 10-13

(Contd. on page 3)

GB

## Safety data sheet

### according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 11

Revision: 09.07.2018

Trade name: GRIVORY GV-4H BLACK 9915

(Contd. of page 2)

- . **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- . **Additional information about design of technical systems:** No further data; see item 7.
- . **8.1 Control parameters**
- . **Components with critical values that require monitoring at the workplace:**  
National workplace exposure limits for airborne particles (respirable and inhalable dust) have to be observed.
- . **8.2 Exposure controls**
- . **Personal protective equipment**
- . **General protective and hygienic measures**  
Wash hands during breaks and at the end of the work.  
Avoid skin contact with the liquefied material.  
Do not inhale dust / smoke / mist.  
Avoid close or long term contact with the skin.
- . **Breathing equipment:** Not necessary if room is well-ventilated.
- . **Protection of hands:** Protective gloves.
- . **Eye protection:** Safety glasses
- . **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- . **9.1 Information on basic physical and chemical properties**
- . **General Information**
- . **Appearance:**

<b>Form:</b>	Granulate
<b>Colour:</b>	According to product specification
<b>Smell:</b>	Nearly odourless
- . **Change in condition**  
**Melting point/freezing point:** 250-270 °C
- . **Flash point:** Not applicable
- . **Decomposition temperature:** > 350 °C
- . **Self-inflammability:** Product is not selfigniting.
- . **Explosive properties:** Product is not explosive.
- . **Density at 20 °C** > 1.0 g/cm<sup>3</sup>
- . **Solubility in / Miscibility with Water:** Insoluble
- . **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- . **10.1 Reactivity** Reacts with strong acids and oxidizing agents
- . **10.2 Chemical stability** No decomposition if used and stored according to specifications.
- . **10.3 Possibility of hazardous reactions**  
The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:**  
Strong acids.  
Strong oxidizing agents.

(Contd. on page 4)

## Safety data sheet

### according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 11

Revision: 09.07.2018

Trade name: GRIVORY GV-4H BLACK 9915

(Contd. of page 3)

. **10.6 Hazardous decomposition products:** No dangerous decomposition products known

### SECTION 11: Toxicological information

. **11.1 Information on toxicological effects**. **Acute toxicity** Based on available data, the classification criteria are not met.. **Primary irritant effect:**. **Skin corrosion/irritation** No irritant effect.. **Serious eye damage/irritation** No irritant effect.. **Respiratory or skin sensitisation** No sensitizing effect 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.

. **Acute effects (acute toxicity, irritation and corrosivity)** No further relevant information available.. **Sensitisation** No sensitizing effect known.. **Repeated dose toxicity** No further relevant information available.. **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

No further relevant information available.

. **Reproductive toxicity** Based on available data, the classification criteria are not met.. **STOT-single exposure** Based on available data, the classification criteria are not met.. **STOT-repeated exposure** Based on available data, the classification criteria are not met.. **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

. **12.1 Toxicity**. **Aquatic toxicity:** No further relevant information available.. **12.2 Persistence and degradability** No further relevant information available.. **12.3 Bioaccumulative potential** No further relevant information available.. **12.4 Mobility in soil** No further relevant information available.. **Additional ecological information:**. **General notes:** Generally not hazardous for water.. **12.5 Results of PBT and vPvB assessment**. **PBT:** Not applicable.. **vPvB:** Not applicable.. **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**. **Recommendation** Disposal according to local statutory requirements.. **European waste catalogue**

07 02 13	waste plastic
12 01 05	plastics shavings and turnings

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

### SECTION 14: Transport information

. **14.1 UN-Number**. **ADR, ADN, IMDG, IATA**

Void

(Contd. on page 5)

## Safety data sheet

### according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 11

Revision: 09.07.2018

**Trade name: GRIVORY GV-4H BLACK 9915**

(Contd. of page 4)

. <b>14.2 UN proper shipping name</b> . <b>ADR, ADN, IMDG, IATA</b>	Void
. <b>14.3 Transport hazard class(es)</b> . <b>ADR, ADN, IMDG, IATA</b> . <b>Class</b>	Void
. <b>14.4 Packing group</b> . <b>ADR, IMDG, IATA</b>	Void
. <b>14.5 Environmental hazards:</b> . <b>Marine pollutant:</b>	No
. <b>14.6 Special precautions for user</b>	Not applicable.
. <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
. <b>Transport/Additional information:</b>	Not dangerous according to ADR/RID/IMDG/IATA.
. <b>UN "Model Regulation":</b>	Void

### SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- . **Directive 2012/18/EU**
- . **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

The information contained herein 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 data specification sheet:** Environment and safety department (U+S)
- . **Contact:**  
Abteilung Umweltschutz und Sicherheit  
Tel.: +41 81 632 78 88 Fax: +41 81 632 76 65  
E-Mail: produktsicherheit@emsservices.ch
- . **Abbreviations and acronyms:**  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative
- . **Sources**  
Regulations  
Regulation (EC) No 1907/2006, amended by (EU) Nr. 830/2015, amended last by commission regulation (EU) No 2018/35.  
Regulation (EC) No 1272/2008, amended last by commission regulation (EU) No 2017/776.
- . **\* Data compared to the previous version altered.**