

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

Printing date 10.07.2018

Version number 10

Revision: 09.07.2018

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** GRILON TSM-40/4 NATUR**Article number:** 405660**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU12 Manufacture of plastics products, including compounding and conversion**Product category** PC32 Polymer preparations and compounds**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.

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**. After skin contact**

With prolonged skin irritation, consult a doctor.  
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)

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

Nitrogen oxides (NO<sub>x</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

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. 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:

Form: Granulate

Colour: According to product specification

. Smell: Nearly odourless

## . Change in condition

Melting point/freezing point: 250-270 °C

. Flash point: Not applicable

. Decomposition temperature: &gt; 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.

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. 10.6 Hazardous decomposition products: No dangerous decomposition products known

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### 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.. **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 |
| 16 01 19 | plastic                        |

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

### SECTION 14: Transport information

## . 14.1 UN-Number

. **ADR, ADN, IMDG, IATA**

Void

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|                                                                                  |                                               |
|----------------------------------------------------------------------------------|-----------------------------------------------|
| <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

**. 15.2 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

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**. 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.**

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