

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:** GRILON TSC-20/4 EC BLACK 9832**Article number:** 404690**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 (Deutschland) GmbH, Warthweg 14, D-64823 Gross-Umstadt
Tel.: +49 6078 783-0, Fax: +49 6078 783 190**Informing department:**Abteilung Umweltschutz und Sicherheit
Tel.: +49 6078 783-0 Fax: +49 6078 783-416
Email: msds@de.emsgrivory.com**1.4 Emergency telephone number:**EMS-CHEMIE (Deutschland) GmbH
Tel. +49 6078 783-0
only workdays from 7 a.m. until 5 p.m. , CET**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**Additional information:**Contains N,N'-diphenyl-p-phenylenediamine. May produce an allergic reaction.
Safety data sheet available on request.**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.

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- . **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- . **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**
CO₂, 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 (CO₂)
Nitrogen oxides (NO_x)
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.

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- . **Storage class** 10-13
- . **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:** > 350 °C
- . **Self-inflammability:** Product is not selfigniting.
- . **Explosive properties:** Product is not explosive.
- . **Density at 20 °C** > 1.0 g/cm³
- . **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.

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Strong oxidizing agents.

. **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** May cause skin irritation.. **Serious eye damage/irritation** No irritant effect.. **Respiratory or skin sensitisation** Sensitization possible by skin contact.. **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:**

Water hazard class 1 (): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

. **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.

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SECTION 14: Transport information

. 14.1 UN-Number	
. ADR, ADN, IMDG, IATA	Void
. 14.2 UN proper shipping name	
. ADR, ADN, IMDG, IATA	Void
. 14.3 Transport hazard class(es)	
. ADR, ADN, IMDG, IATA	
. Class	Void
. 14.4 Packing group	
. ADR, IMDG, IATA	Void
. 14.5 Environmental hazards:	
. Marine pollutant:	No
. 14.6 Special precautions for user	Not applicable.
. 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to ADR/RID/IMDG/IATA.
. UN "Model Regulation":	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.: +49 6078 783-0 Fax: +49 6078 783-416
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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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