

Safety data sheet

according to Regulation (EC) No. 1907/2006

Printing date 10.07.2018

Version number 9

Revision: 09.07.2018

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

- . **1.1 Product identifier**
- . **Trade name:** GRILAMID XE 4181 NATURAL
- . **Article number:** 150144
- . **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
- . **Additional information:**
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:**

CAS: 3622-84-2	N-butylbenzenesulphonamide	3-<10%
EINECS: 222-823-6	 STOT RE 2, H373; Aquatic Chronic 3, H412	

- . **Additional information** For the wording of the listed hazard phrases refer to section 16.

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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**
 Immediately wash with water and soap and rinse thoroughly.
 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)
 Sulphur dioxide (SO₂)
 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.

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- . **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**
- . **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 contact with the eyes and 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:** 190-210 °C
- . **Flash point:** Not applicable
- . **Decomposition temperature:** Not determined.
- . **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**

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.

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- . **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.
- . **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** Sensitising effect by skin contact is possible by prolonged exposure.
- . **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 2 (): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
- . **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
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12 01 05	plastics shavings and turnings
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- . **Uncleaned packagings:**
- . **Recommendation:** Disposal must be made according to official regulations.

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

- . 15.1 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.

. **Relevant phrases**

H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

. **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

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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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