

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 4180 NATURAL

Article number: 150145

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



GHS08 health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified according to the CLP regulation.

Hazard pictograms



GHS08

Signal word Warning

Hazard-determining components of labelling:

N-butylbenzenesulphonamide

Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

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SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterisation: Mixtures

. Description:

Polyamide
Additives / Modifiers

. Dangerous components:

CAS: 3622-84-2	N-butylbenzenesulphonamide	10-<25%
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.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information** Immediately remove any clothing soiled by the product.

. After inhalation

Supply fresh air; consult doctor in case of symptoms.
In case of unconsciousness bring patient into stable side position for transport.

. 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

Call a doctor immediately.

. 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.

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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
- . **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

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- | | |
|--|--|
| . Smell: | Odourless |
| . Change in condition
Melting point/freezing point: | 185-205 °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/cm ³ |
| . 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.
- . **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.

. **LD/LC50 values that are relevant for classification:**

3622-84-2 N-butylbenzenesulphonamide

Oral	LD50	2070 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rat)

- . **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**
May cause damage to organs through prolonged or repeated exposure.
- . **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

3622-84-2 N-butylbenzenesulphonamide

EC50 / 3 h	> 6000 mg/l (activated sludge) (OECD 209)
EC50 / 48 h	56 mg/l (daphnia magna)
EC50 / 72 h	49 mg/l (algae (selenastrum capricornutum))
LC50 / 96 h	> 38 mg/l (fish (danio rerio))

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 must be made according to official regulations.

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

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.

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. 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.

- . 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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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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