

**SAFETY DATA SHEET**

according to Regulations (EC) No. 1907/2006  
and (EU) No. 2015/830 for

**POLYAMIDE 6 PELLETS**

DOMO Caproleuna GmbH  
Bau 3101 – Am Haupttor  
D-06237 Leuna

Prepared

2005-04-06

Revised

2020-03-27

Rev. 9

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Chemical name: Polyamide 6 (pellets)

Trade names:

DOMAMID®H22	DOMAMID®H33 F
DOMAMID®H24	DOMAMID®H33 L
DOMAMID®H24 01	DOMAMID®H33 S
DOMAMID®H24 S01	DOMAMID®H33 S02
DOMAMID®H24 S11	DOMAMID®H36
DOMAMID®H24 SD01	DOMAMID®H36 F
DOMAMID®H24 SSD01	DOMAMID®H36 L
DOMAMID®H27	DOMAMID®H36 LN
DOMAMID®H27 S	DOMAMID®H36 S
DOMAMID®H27 S05	DOMAMID®H40
DOMAMID®H27 S10	DOMAMID®H40 F
DOMAMID®H27 S12	DOMAMID®H40 L
DOMAMID®H28	DOMAMID®H40 LN
DOMAMID®H28 S	DOMAMID®H40 S
DOMAMID®H33	

Synonyms: Polyamide, basic resin

REACH Registration Number: 01-2119457029-36-0003  
(for monomer:  $\epsilon$ -Caprolactam)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Suitable for use as: Polymer, only for industrial processing

Identified uses

- polymer
- textile yarns
- compounds
- injection moulding

Uses advised against

Please inquire separately regarding food grade status of the pellets.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer: Xentrys Leuna GmbH  
Bau 3116 – Am Haupttor  
D-06237 Leuna  
Tel. BU Polymerisation + 49 34 61 43-24 29

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Tel. BU Polymerisation + 49 33 86 21 397 61  
Fax + 49 33 86 21 397 66  
E-mail [marcel.mueller@domo.org](mailto:marcel.mueller@domo.org)

Supplier: DOMO Caproleuna GmbH  
Bau 3101 – Am Haupttor  
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Tel. Management + 49 34 61 43-22 00  
Tel. Sales + 49 34 61 43-23 05  
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### 1.4 Emergency telephone number

Europe	+44 1235 239670	[Carechem 24]
Middle East/Africa	+44 1235 239671	[Carechem 24]
Americas	+1 215 207 0061	[Carechem 24]
East/ South East Asia	+65 3158 1195	[Carechem 24]

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture (CLP)

According to Regulation (EC) No. 1272/2008

According to the GHS criteria this product is not subject to labelling.

#### Hazard Identification

No particular hazards known, if the storage and handling regulations/hints are observed.  
Burning hazard when handling hot product.

### 2.2 Label elements

According to Regulation (EC) No. 1272/2008

According to the GHS criteria this product is not subject to labelling.

### 2.3 Other hazards

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According to Regulation (EC) No. 1272/2008

No particular hazards known, if the storage and handling regulations/hints are observed.

PBT/vPvB Assessment

The product does not fulfil the PBT (persistent, bioaccumulative, toxic) or vPvB (very persistent, very bioaccumulative) criteria.

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**Chemical Characterisation

Name: Polyamide 6

CAS No.: 25038-54-4

Harmonized system code: 39081000

Product contains  $\epsilon$ -caprolactam, additives, fillers as raw materials.

Due to the production process the product may contain < 1%  $\epsilon$ -Caprolactam residues.

**SECTION 4: First-aid measures****4.1 Description of first-aid measures**After skin contact

Have burns caused by molten product treated in hospital.

After eye contact

In case of contact with molten product flush with cold, running water. Consult a physician.

After inhalation

After vapour inhalation (when burning/heating the product) provide fresh air.

After ingestion

Do not induce vomiting. Danger of suffocation.

**4.2 Most important acute and delayed symptoms and effects**Symptoms

No particular reactions of the human body to the product known up till now.

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

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Treatment

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**Suitable extinguishing media

Water fog, foam, extinguishing powder, carbon dioxide

**5.2 Special hazards arising from the mixture**

At temperatures > 300 °C the following substances may be liberated: carbon monoxide, hydrocyanic acid, ε-caprolactam, ammonia.

Under certain fire circumstances traces of other toxic substances cannot be excluded. The formation of other decomposition and oxidation products depends on the fire conditions.

**5.3 Advice for firefighters**

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the authorities.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping in case of product spillage/leakage.  
No particular measures necessary.

**6.2 Environmental precautions**

No particular measures necessary.

**6.3 Methods and material for containment and cleaning up**

For small amounts: Take up product using suitable devices and dispose of.  
For large amounts: Take up product using suitable devices and dispose of.

**6.4 Reference to other sections**

For exposure controls, personal protection and disposal considerations see sections 8 and 13.

**SECTION 7: Handling and storage**

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**7.1 Precautions for safe handling**

Fire and explosion protection

Take precautionary measures against static discharges.

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

Suitable material for containers: Stainless steel 1.4301 (V2), stainless steel 1.4401 (V4), aluminium, high-density polyethylene (HDPE)

Storage stability

Store cold and dry, use water and air-tight packaging (material is hygroscopic)

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

None for polyamide

When used properly,  $\epsilon$ -caprolactam may be released. The following limit values apply to  $\epsilon$ -caprolactam.

Type (country of origin)	Workplace exposure limit		recommended control procedure	Maximum limit	Source	Remark
	long term	short term				
AGW (DE)	5 E [mg/m <sup>3</sup> ]	=2=		Cat. I	TRGS 900	DFG, Y, 11

**8.2 Exposure controls**

Eye protection

Wear safety goggles with side-shields (frame goggles) (e. g. EN 166)

General Protection and Hygiene Measures

No particular measures necessary.

Respiratory and hand protection recommended.

Do not eat or drink during work. Wash hands before breaks and after work.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

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Appearance

Form: pellets  
Colour: colourless  
Odour: odourless  
Odour threshold: not applicable

Physical and chemical properties

pH: not soluble  
Melting point: ca. 220 °C (DIN 53765)  
Initial boiling point: not applicable  
Flash point: not applicable  
Evaporation rate: not applicable  
Ignition sensibility: not ignitable  
Lower explosion limit: not applicable  
Upper explosion limit: not applicable  
Ignition temperature: > 440 °C (ASTM D1929)  
Vapour pressure: not applicable  
Density: 1.1 – 1.6 g/cm<sup>3</sup> (20 °C)  
Relative density: no data available  
Relative vapour density (air): not applicable  
Water solubility: not soluble  
Partition coefficient n-octanol/water (log Kow): not applicable  
Self-ignition: not pyrophoric  
Thermal decomposition: > 300 °C  
Explosion risk: no risk of explosion  
Oxidising properties: not oxidising

**9.2 Other information**

Bulk density: 500 - 800 kg/m<sup>3</sup>

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No hazardous reactions, if the storage and handling regulations/hints are observed. No dangerous reaction known.

**10.2 Chemical stability**

Product is chemically stable under normal ambient conditions (room temperature).

**10.3 Possibility of hazardous reactions**

Accumulation of fine dust (e.g. due to friction during pellet transport) may lead to dust explosion in the presence of air.

**10.4 Conditions to avoid**

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Temperature > 300 °C

**10.5 Incompatible materials**

Strong acids and oxidants

**10.6 Hazardous decomposition products**Hazardous decomposition products

Carbon monoxide, hydrocyanic acid, caprolactam, ammonia

Thermal decomposition products

Caprolactam, carbon monoxide, hydrocyanic acid

These substances/substance groups may be released during processing.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**Acute toxicity

Contact with molten product may cause burns.

Skin corrosion/irritation

The substance is inert.

Serious eye damage/irritation

The substance is inert.

Respiratory or skin sensitisation

The substance is inert.

Germ cell mutagenicity

The substance is inert.

Carcinogenicity

The substance is inert.

Reproductive toxicity

The substance is inert.

Specific target organ toxicity (single exposure)

not applicable

Specific target organ toxicity (repeated exposure)

The substance is inert.

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Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information regarding toxicity

In our experience and according to our knowledge the product has no hazardous effects if handled properly and used for the purpose intended.

**SECTION 12: Ecological information****12.1 Toxicity**Assessment of aquatic toxicity

Very likely no acute toxicity for aquatic organisms. The product has not been tested. The statement has been derived from the constitution of the substance.

**12.2 Persistence and degradability**

Bio-degradability and elimination (H<sub>2</sub>O):

According to the present state of knowledge this product is inert and not degradable.

**12.3 Bioaccumulative potential**

Due to the consistency along with the low water solubility of the product a bio-availability is unlikely.

**12.4 Mobility in soil**

For scientific reasons no study necessary.

**12.5 Results of PBT and vPvB assessment**

The product does not fulfil the PBT (persistent, bioaccumulative, toxic) or vPvB (very persistent, very bioaccumulative) criteria.

**12.6 Other adverse effects**

Due to the product's consistency dispersion into the environment is not possible. According to the present state of knowledge negative ecological effects are not expected.

Product can be eliminated from water by mechanical separation.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Consider recycling possibilities.



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May be disposed of or incinerated together with household waste in compliance with applicable local and official regulations.

Contaminated packaging

Empty packaging completely.

Completely empty packaging may be recycled.

**SECTION 14: *Transport information***

No hazardous good according to ADR/RID/IMDG/IATA/ICAO-Code.

**14.1 UN Number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard classes**

Not applicable

**14.4 Packaging group**

Not applicable

**14.5 Environmental hazards**

Not applicable

**14.6 Special precautions for the user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15: *Regulatory information***

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations – Germany

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*Water hazard class (acc. to AwSV)*  
Not hazardous to water

International regulations

**15.2 Chemical safety assessment**

Chemical safety assessment is not required.

**SECTION 16: Other information**

This Material Safety Data Sheet, in particular the specified limiting values, comply with German law

The above details are based on our present status of know-how. The information is intended to describe our product in terms of safety requirements and thus shall not guarantee certain properties. It does not justify a contractual legal relationship.

Unit issuing the data sheet: Xentrys Leuna GmbH

**Emergency telephone numbers (country specific)**

<b>Global/ english speaking countries</b>	<b>+44 1865 407333</b>
<b>Country</b>	<b>Emergency telephone number</b>
France	+33 1 72 11 00 03
Germany	+49 89 220 61012 0800 000 7801 (toll-free, access from Germany only)
Spain	+34 91 114 2520
Italy	+39 02 3604 2884
Netherlands	+31 10 713 8195
Turkey	+90 212 375 5231
Norway	+47 2103 4452
Greece	+30 21 1198 3182
Portugal	+351 30880 4750
Denmark	+45 8988 2286
Sweden	+46 8 566 42573
Poland	+48 22 307 3690
Czech Republic	+420 228 882 830
Finland	+358 9 7479 0199
Bahrain/Middle East	+973 1619 8321
Africa/South Africa	+27 21 300 2732

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United States	+1 866 928 0789 (toll-free)
Canada	+1 800 579 7421 (toll-free)
United States and Canada	+1 202 464 2554
Mexico	+52 55 5004 8763
Brazil	+55 11 3197 5891
Chile	+56 2 2582 9336
Colombia	+57 1 508 7337
Argentina	+54 11 5984 3690
Sri Lanka	+65 3158 1195
Taiwan	+886 2 8793 3212
Japan	+81 3 4578 9341
Indonesia	007 803 011 0293 (toll-free; access only from Indonesia)
Malaysia	+60 3 6207 4347
Thailand	001 800 120 666 751 (toll-free; access only from Thailand)
India	+65 3158 1198
	000 800 100 7479 (toll-free; access only from India)
Pakistan	+65 3158 1329
Bangladesh	+65 3158 1200
Philippines	+63 2 8231 2149
Vietnam	+84 28 4458 2388
South Korea	+82 2 3479 8401
Singapore	+65 3165 2217
Australia	+61 2 8014 4558
	18000 74234 (toll-free; access only from Australia)
New Zealand	+64 9 929 1483
	0800 446 881 (toll-free; access only from New Zealand)

### General revision

Section 1.4/section 16: Update of emergency telephone numbers (regional and country specific)