

SAFETY DATA SHEET

according to Regulations (EC) No. 1907/2006
and (EU) No. 2020/878 for

POLYAMIDE 6 PELLETS

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

Prepared

2005-04-06

Revised

2022-12-14

Rev. 10

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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®H24 DOMAMID®H24 01 DOMAMID®H24 S01 DOMAMID®H24 S11 DOMAMID®H24 SD01 DOMAMID®H24 SSD01 DOMAMID®H27 DOMAMID®H27 S DOMAMID®H27 S05 DOMAMID®H27 S10 DOMAMID®H27 S12 DOMAMID®H28 DOMAMID®H28 S DOMAMID®H33	DOMAMID®H33 F DOMAMID®H33 L DOMAMID®H33 S DOMAMID®H33 S02 DOMAMID®H36 DOMAMID®H36 F DOMAMID®H36 L DOMAMID®H36 LN DOMAMID®H36 S DOMAMID®H40 DOMAMID®H40 F DOMAMID®H40 L DOMAMID®H40 LN DOMAMID®H40 S
Synonyms:	Polyamide, basic resin	
REACH Registration Number: (for monomer: ε-Caprolactam)	01-2119457029-36-0003	
Form:	no nanoform	
UFI Code:	not applicable, the product is not subject to labeling according to regulation (EC) No. 1272/2008.	

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.

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1.3 Details of the supplier of the safety data sheet

Manufacturer: DOMO Caproleuna GmbH
Bau 3101 – Am Haupttor
D-06237 Leuna
Tel. + 49 34 61 43-22 42
Fax + 49 34 61 43-22 20
E-mail sds@domo.org

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

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.

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Endocrine disruptor information

This product does not contain any known or suspected endocrine disruptors.

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 ϵ -caprolactam, additives, fillers as raw materials.
Due to the production process the product may contain < 1% ϵ -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 symptoms and effects, both acute and delayedSymptoms

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 neededTreatment

Symptomatic treatment.

SECTION 5: Firefighting measures

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5.1 Extinguishing mediaSuitable extinguishing media

Water fog, foam, extinguishing powder, carbon dioxide

5.2 Special hazards arising from the substance or 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***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

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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)

7.3. Specific end use(s)

See point 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

None for polyamide

When used properly, ε-caprolactam may be released. The following limit values apply to ε - 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 ³]	=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

Appearance

Physical state:

solid; pellets

Colour:

colourless

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Odour: odourless
Odour threshold: not applicable

Physical and chemical properties

Melting point:	ca. 220 °C (DIN 53765)
Initial boiling point:	not applicable
Flammability:	not flammable
Lower explosion limit:	not applicable
Upper explosion limit:	not applicable
Flash point:	not applicable
Ignition temperature:	> 440 °C (ASTM D1929)
Thermal decomposition:	> 300 °C
pH	not soluble
Kinematic viscosity:	not applicable
Water solubility:	not soluble
Partition coefficient n-octanol/water (log Kow):	not applicable
Vapour pressure:	not applicable
Evaporation rate:	not applicable
Density:	1.1 – 1.6 g/cm ³ (20 °C)
Relative density:	no data available
Relative vapour density (air):	not applicable
Particle characteristics:	pellets; no nanoform

9.2 Other information

Bulk density: 500 - 800 kg/m³

9.2.1 Information with regard to physical hazard classes

Self-ignition:	not pyrophoric
Explosion risk:	no risk of explosion
Fire promotion:	not fire-promoting

9.2.2 Other safety characteristics

No information available

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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

Temperature > 300 °C

10.5 Incompatible materials

Strong acids and oxidants

10.6 Hazardous decomposition productsHazardous 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 hazard classes as defined in Regulation (EC) No 1272/2008**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.

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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.

Aspiration hazard

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

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

No information available. See section 2.3

11.2.2. Other information

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 (H₂O):

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

12.3 Bioaccumulative potential

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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 Endocrine disrupting properties

No information available. See section 2.3

12.7 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.

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/ADN

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard classes

Not applicable

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14.4 Packaging group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for the user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

National regulations – Germany

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.

Emergency telephone numbers (country specific)

Global/ english speaking countries	+44 1865 407333
Country	Emergency telephone number
France	+33 1 72 11 00 03

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Germany	+49 89 220 61012 0800 000 7801 (toll-free, access from Germany only)
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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
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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
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India	+65 3158 1198 000 800 100 7479 (toll-free; access only from India)
Pakistan	+65 3158 1329
Bangladesh	+65 3158 1200
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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)

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General revision

Revision according to Regulation (EC) 2020/878.