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
Page 1 of 12

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®H28 SD01
DOMAMID®H28 SSD01
DOMAMID®H28 S02
DOMAMID®H28 SSD01
DOMAMID®H28 SSD01
DOMAMID®H28 SSD01
DOMAMID®H28 SSD01
DOMAMID®H28 SSD01
DOMAMID®H33
DOMAMID®H33 F
DOMAMID®H33 L
DOMAMID®H33 S
DOMAMID®H33 S02
DOMAMID®H33 S11
DOMAMID®H33 S20
DOMAMID®H33 S21
DOMAMID®H36
DOMAMID®H36 F
DOMAMID®H36 L
DOMAMID®H36 LN
DOMAMID®H36 S
DOMAMID®H40
DOMAMID®H40 F
DOMAMID®H40 LN
DOMAMID®H40 S
DOMAMID®H33

Synonyms: Polyamide, basic resin
REACH Registration Number: 01-2119457029-36-0003
(for monomer: ε-Caprolactam)
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.
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.
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 delayed

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

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 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**
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.

<table>
<thead>
<tr>
<th>Type (country of origin)</th>
<th>Workplace exposure limit</th>
<th>recommended control procedure</th>
<th>Maximum limit</th>
<th>Source</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGW (DE)</td>
<td>5 E [mg/m$^3$]</td>
<td>=2=</td>
<td>Cat. I</td>
<td>TRGS 900</td>
<td>DFG, Y, 11</td>
</tr>
</tbody>
</table>

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
Odour: odourless
Odour threshold: not applicable

Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Melting point:</td>
<td>ca. 220 °C (DIN 53765)</td>
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<tr>
<td>Initial boiling point:</td>
<td>not applicable</td>
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<tr>
<td>Flammability:</td>
<td>not flammable</td>
</tr>
<tr>
<td>Lower explosion limit:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Upper explosion limit:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Ignition temperature:</td>
<td>&gt; 440 °C (ASTM D1929)</td>
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<tr>
<td>Thermal decomposition:</td>
<td>&gt; 300 °C</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Kinematic viscosity:</td>
<td>not applicable</td>
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<tr>
<td>Water solubility:</td>
<td>not soluble</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (log Kow):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Vapour pressure:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Density:</td>
<td>1.1 – 1.6 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Relative density:</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative vapour density (air):</td>
<td>not applicable</td>
</tr>
<tr>
<td>Particle characteristics:</td>
<td>pellets; no nanoform</td>
</tr>
</tbody>
</table>

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
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 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 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.
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
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
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)

<table>
<thead>
<tr>
<th>Global/ english speaking countries</th>
<th>+44 1865 407333</th>
</tr>
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<tbody>
<tr>
<td>Country</td>
<td>Emergency telephone number</td>
</tr>
<tr>
<td>France</td>
<td>+33 1 72 11 00 03</td>
</tr>
<tr>
<td>Country</td>
<td>Number</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>Germany</td>
<td>+49 89 220 61012</td>
</tr>
<tr>
<td></td>
<td>0800 000 7801 (toll-free, access from Germany only)</td>
</tr>
<tr>
<td>Spain</td>
<td>+34 91 114 2520</td>
</tr>
<tr>
<td>Italy</td>
<td>+30 21 1198 3182</td>
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<tr>
<td>Netherlands</td>
<td>+31 10 713 8195</td>
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<tr>
<td>Turkey</td>
<td>+47 8988 2286</td>
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<tr>
<td>Norway</td>
<td>+351 30880 4750</td>
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<tr>
<td>Greece</td>
<td>+45 866 928 0789 (toll-free)</td>
</tr>
<tr>
<td>Portugal</td>
<td>+48 22 307 3690</td>
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<td>Denmark</td>
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<td>Sweden</td>
<td>+55 11 3197 5891</td>
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<td>+56 2 2582 9336</td>
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<td>Finland</td>
<td>+54 11 5984 3690</td>
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<tr>
<td>Bahrain/Middle East</td>
<td>+973 1619 8321</td>
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<td>Africa/South Africa</td>
<td>+27 21 300 2732</td>
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<td>United States and Canada</td>
<td>+1 202 464 2554</td>
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<td>United States</td>
<td>+1 886 2 8793 3212</td>
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<tr>
<td>Australia</td>
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</tr>
<tr>
<td>18000 74234 (toll-free; access only from Australia)</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

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

| POLYAMIDE 6 PELLETS | DOMO Caproleuna GmbH
|---------------------|----------------------
| Prepared            | Bau 3101 – Am Haupttor
|                     | D-06237 Leuna        |
| Revised             | 2022-12-14           |
|                     | Rev. 10              |
|                     | Page 12 of 12        |

Prepared: 2005-04-06
Revised: 2022-12-14

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0800 446 881 (toll-free; access only from New Zealand)

General revision
Revision according to Regulation (EC) 2020/878.