

DOMO Premnitz GmbH Paul-Schlack-Straße D-14727 Premnitz Germany ☎ + 49 (0) 33 86 / 24-22 50 prepared 2006-05-09 revised 2010-06-28	EU SAFETY DATA SHEET acc. to EU Directive 2001/58/EG for Domamid A1	 Page 1 of 5
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1 MATERIAL/PREPARATION AND COMPANY NAME

Trade name	Domamid A1	
	Applicable to: Domamid A1-001-N1-N, A1-001-N1-B, A1-108-N1-N, A1-108-N1-B, A1-108-N1-W, A1-002-V15-N, A1-002-V15-B, A1-007-V20-N, A1-009-V25-N, A1-009-V25-B, A1-003-V30-N, A1-003-V30-B, A1-008-V30-H2-N, A1-008-V30-H2-B, A1-505-V30-I1-N, A1-023-V30-N, A1-112-V40-N, A1-026-B20-V10-B	
Application	Injection molding	
Manufacturer	DOMO Premnitz GmbH Paul-Schlack-Straße D-14727 Premnitz Germany	
Telephone	Management	+ 49 (0) 33 86 / 24-22 50
Supplier	DOMO Caproleuna GmbH Bau 3101 – Am Haupttor D-06234 Leuna Germany	
Telephone	Management	+ 49 (0) 34 61 / 43-22 00
	Sales dept.	+ 49 (0) 34 61 / 43-23 05
	Fax	+ 49 (0) 34 61 / 43-22 20
	Emergency phone	+ 49 (0) 34 61 / 43-43 33

2 COMPOSITION/INFORMATION ABOUT COMPONENTS

<u>Chemical characterization</u>	
Designation:	Polyamide 6 Compound for Injection Molding applications
Product contains:	Polyamide 6, additives, possibly glass fibers, stabilizing agents, pigments, fillers
Further information:	The various components and fillers are incorporated in the bulk of the polymer

<u>Chemical characterization and Identification numbers</u>					
<u>Name</u>	<u>Formula</u>	<u>R-clauses</u>	<u>Index-Nr.</u>	<u>CAS-Nr.</u>	<u>EINECS-Nr</u>
Polyamide 6				25038-54-4	
ε-Caprolactam	C ₆ H ₁₁ NO	20/22, 36/37/38	613-069-00-2	105-60-2	203-313-2
Due to the condition of preparation a content of < 1% of ε-Caprolactam (can increase by subsequent treatment) remaining in the product is possible.					

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3 POSSIBLE HAZARDS

Health risks

None

Specific hazards

None

Environmental risks

None according to EC- criteria

4 FIRST AID MEASURES

After eye contact: In case of eye contact with molten material, rins thoroughly for several minutes with cold flowing water and consult a doctor.

After skin contact: Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from skin. Obtain medical attention.

After inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. Obtain medical attention after significant exposure.

After swallowing: Do not cause the person to throw up. Suffocation risk.

5 MEASURES FOR FIRE FIGHTING

Suitable fire extinguishing materials

Carbon Dioxide (CO₂), dry powder, foam, water.

Unsuitable fire extinguishing materials

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Particular hazards due to decomposition products

In case of temperatures > 350°C CO, NO_x eg. hydrogen cyanide can be generated. A generation of further toxic compounds could not be disclosed in case of fire. The formation of further fragments and oxidation products depends on the respective conditions.

Specific protection equipment

In the event of a fire, wear a self contained breathing apparatus and a complete suit protecting against chemicals.

Other notes

Prevent fire-fighting water from penetrating surface waters or ground water.

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6 MEASURES IN CASE OF UNINTENDED RELEASEPrecautions related to persons

None

Precautions related to environment

None

Cleaning/pick-up methods

Sweep-up to prevent slipping hazard. Avoid penetration in drainage system, pits and basement.
Danger of blockage.

Additional notes

none

7 HANDLING AND STORAGEAdvice for safe handling

Measures against static electricity

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Advice for fire and explosion protection

Keep away from ignition sources. Do not smoke.

Prevent static electricity

Storage conditions

To be stored in a cool and dry place. Use vapor tight packaging material.

Other notes

No further requirements.

8 EXPOSITION RESTRICTION AND PERSONAL PROTECTIVE EQUIPMENTExposition limit values

Material designation	CAS No.	EINECS No.	Value	Value type	Pregnancy
Caprolactam	105-60-2	203-313-2	5 mg/m ³	dust	group C

Personal protection equipment

Respiratory protection: In case of respirable dust and/or fumes, use self-contained breathing apparatus.

Hand protection: Protective gloves

Eye protection: Safety glasses

Body protection: Protection clothing

Hygiene measures:

Do not eat or drink while working. Wash hands before breaks and at the end of the workday.

General precaution for all plastics: do not breath fumes evolved from hot polymer.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	pellets
Color	natural bright, white or colored
Odor	none

Relevant safety data

Melting point/melting section	> 220 °C	DIN EN ISO 11357-1
Spontaneous combustion temperature	> 400 °C	ASTM D 1929
Explosion risk	no	
Density at 20°C:	1,1 – 1,6 g/cm ³	ISO 1183-1
Solubility in/ mix ability with water	insoluble	
Bulk density	500 – 800 kg/m ³	
Combustibility	yes	
pH- Value at 20 °C:	n.a.	

10 STABILITY AND REACTIVITY

Stability

No decomposition under normal circumstances.

Conditions to be avoided

Temperatures above 350°C, strong acids and oxidizing agents

Hazardous decomposition products

Thermal decomposition	release of carbon monoxide release of possible traces of hydrogen cyanide
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11 TOXICOLOGY

Toxicological tests

Relevant LD/LC₅₀-Values

Components	Nature	Value	Species
Polyamide 6	oral	>500 mg/kg	Rat
ε-Caprolactam	oral	1660 mg/kg	Rat
	Inhalation	8,2 mg/l (4h)	Rat
	Dermal	>2000 mg/kg	Rat

Primary irritant effects

Skin, eyes and respiratory system: none

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<p>12 ECOLOGY</p>
<p><u>Ecotoxic effects</u> The product is insoluble in water as polymer and therefore harmless. Can be separated mechanically in waste treatment stations. The product is a difficult biologic to degrade compound.</p>
<p>13 WASTE DISPOSAL HINTS</p>
<p><u>Hints for waste disposal</u> Recovery or recycling if possible. Otherwise: burn or dispose according to legal regulations.</p>
<p>14 TRANSPORT INFORMATION</p>
<p>The product is not classified as dangerous in the meaning of transport regulations. (ADR, RID, ADNR, IMDG, UN, ICAO/IATA-DGR)</p>
<p>15 REGULATIONS</p>
<p><u>Identification according to EC Directives</u> The product is not classified and identified according EC- regulations 67/548/ECE and 88/379/EEG. No special labeling instructions required.</p>
<p>16 OTHER INFORMATION</p>
<p>This information is based on our present state of knowledge, but is not meant for determining certain product characteristics. Hence this information can not be the bases for legal action.</p> <p>Responsible Company: DOMO Premnitz GmbH; Department F&E Verified: 2008-10-08</p>