Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Date created: 2008-11-07
Date revised: 2009-01-22

Badamid B70

1. Substance / Preparation and Company Identification

Trade name: **Badamid B70**

Use: Manufacturing of plastic articles

Company:
Bada AG
Email: sdb@bada.de
Untere Strut 1
D-77815 Bühl/Baden

Phone: +49 (0) 72 23-9 40 77-0
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Emergency Information:
Phone: +49 (0) 72 23-9 40 77-0 (Monday to Friday, 08:30–16:30 hrs (GMT+01))

2. Hazard Identification

Hazard Identification:
This product does not require labelling in sense of the preparation guideline 1999/45/EC.
Labelling:
The preparation is not dangerous in the sense of guideline 1999/45/EG.

3. Composition / Information on Ingredients

Chemical Nature:
Preparation
Polyamide 6 (PA6), additives, optionally colourants
>PA6<

Hazardous Ingredients:
none

4. First Aid Measured

In Case of Skin Contact with the hot melt:
Immerse in cold water for a prolonged period.
Do not use force or solvents to remove product incrustations from affected skin areas.
Do not peel solidified product off the skin.
Medical treatment necessary.

In Case of Inhalation of Fumes:
Provide fresh air. If there is difficulty in breathing, give oxygen.
In case of respiratory tract irritation, consult a physician.

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5. Fire Fighting Measures

In case of fire, cordon off the fire source. Evacuate all persons out of the danger zone.
Measures which are not trained or which involve a high personal risk must not be taken.

Suitable Extinguishing Media:
Water. Foam. Extinguishing powder. Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:
Strong water jet.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:
Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx), Hydrocarbons (aromatic and aliphatic). Amines, Aldehyde, Ketone. Acids. Ammonia. Hydrogen Cyanide.

Special protective equipment for fire fighters:
In case of fire: Wear self-contained breathing apparatus.
Wear protective clothing.
Contaminated extinguishing media and fire residues must be collected and / or disposed according to official and local regulations

6. Accidental Release Measures

Personal Precautions:
Granulate: Special danger of slipping by leaking/spilling product. Take up mechanically.
Hot Melt : Danger of exothermal decomposition. Cool down using water.

Environmental Precautions:
No special environmental measures are necessary.
Large quantity released:
Take up mechanically.
Small quantity released:
Take up mechanically.

7. Handling and Storage

Precautions against fire and explosion:
Provide earthing of containers, equipment, pumps and ventilation facilities.
Take precautionary measures against static discharges.

Processing / Handling:
Avoid dust formation. Dust can form an explosive mixture with air. Do not breathe dust.
When the product is chopped or ground, dust explosion regulations have to be considered.
Provide exhaust ventilation. Do not breathe fumes.

Storage:
Protect against moisture.
Avoid extreme heat.
Avoid all sources of ignition: heat, sparks, open flame.

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8. Exposure Controls and Personal Protection

Based on our experience, the following exposure limits can be maintained, provides there is a sufficient ventilation or effective exhaustion of the fumes. Please take EN 689 into account for evaluation of the exposition. Possibly, exposure supervision may be necessary.

Substances:

ε-Caprolactam	CAS-No 105-60-2	R- Phrases: R20/22-36/37/38
dust	Can be generated when material is treated mechanically, e.g. grinding, milling	

Occupational exposure limit value (AGW) [mg/m³]

Substance	EC	Germany	Austria	Switzerland	Belgium
ε-Caprolactam	10	5	5	-	10
dust					
- A: alveolar fraction	-	1,5	-	-	3
- E: respirable fraction	--	4	-	-	10

Personal Protective Equipment and Measures:

- Respiratory protection: Breathing protection if dusts are formed. Particle filter e.g. DIN 143 or 149, Type P1
- Hand protection: Wear safety gloves / heat protection gloves. Use hand protection cream.
- Eye protection: Safety glasses with side shields.
- Body protection: Working clothers shall cover skin largely. Wear dust protecting overall when large amounts of dust are formed.
- General safety measures: Avoid inhalation of fumes and dust. Avoid contact with molten material.
- Hygiene measures: handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Physical state:	solid
Form:	granules
Colour:	uncoloured or various, depending on colourant
Odour:	odourless
Melting temperature:	222 °C
Decomposition temperature:	> 320 °C
Ignition temperature:	> 400 °C
Explosion limits:	not applicable
Vapour pressure:	not applicable
Viscosity:	not applicable
Water solubility:	not soluble
pH value:	not applicable
Density:	1,13 g/cm³
Bulk density:	600 - 800 kg/m³

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10. Stability and Reactivity

The preparation is chemically stable.

Conditions to avoid:
Thermal decomposition starts at 320 °C. To avoid thermal decomposition, do not overheat.
Thermal decomposition can lead to the escape of irritating gases and vapours.

Decomposition Products:
Carbon monoxide. Carbon Dioxide. Nitrogen oxides (NOx). Hydrocarbons, aromatic and aliphatic. Amines. Nitrile. Aldehyde. Ketone. Acids. Ammonia. Hydrocyaniy acid.

Hazardous reactions:
No hazardous reactions known.

11. Toxicological Information

When processing according to the processing recommendations, small amounts of Water, ε-Caprolactam, Ketones, Acids and in very small amounts Aldehydes can occur.

When handled properly in compliance with the intended use, no harmful or toxicological effects are known.

In seldom cases the product can cause temporary irritation of the skin when handling large quantities of the material with unprotected skin.

12. Ecological Information

Aquatic toxicity:
Due to its consistency and insolubility, no harmful effects on water organisms are expected.

Persistance and Degradability:
Experience shows that the preparation is inert and non- degradable.

Bioaccumulation potential:
The preparation will not be readily bioavailable due to its consistency and insolubility in water.

13. Disposal Considerations

Preparation:
Check for possibility of recycling.
The preparation can be molten and processed several times.
Can be incinerated or landfilled together with household waste in compliance with applicable technical regulations.

Packaging:
Completely emptied packaging can be reuses, re-cycled or landfilled with household waste.

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14. Transport information

Transport Regulations:
Not classified as hazardous under transport regulations.

Additional information:
Protect against moisture.

15. Regulatory Information

Labelling:
Not subject to labelling according to EEC directives.

16. Other Information

The preparation must not be used to produce medical parts which are intended as a permanent implant in the human body.

The R phrases which are mentioned in sections 2, 3, or 8, are give below in wording. They are related to substances which are contained in the preparation, or which can be formed during processing of the preparation. They must not be mixed with the labelling of the preparation. The labelling of the preparation according to EEC directive can be found in section 15.

R20/22:	Harmful by inhalation and if swallowed.
R36/37/38:	Irritating to eyes, respiratory system and skin.

The information of this material safety data sheet have been compiled carefully and represent the state of our knowledge at thE issue date. They are intended to give advice for the save and proper handling , transport, storage and disposal of the product to the industrial or commercial user.
The information is not transferable to other products.
The information does not guarantee certain product properties.
Recipients to our products must take responsibility for observing existing laws and regulations.