

in accordance with 91/155/EWG

Date 22.08.2008  
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## MATERIAL SAFETY DATA SHEET

**Company: gunold gmbh, Obernburger Str. 125, 63811 Stockstadt / FRG**

**Trade Name: BSN Type I and Type H**

### 1 Chemical Characterisation:

Composition: Copolyamide  
Additives: None  
Dangerous Substances contained: None

### 2 Physical and Chemical Properties

Form: Solid Film      Colour: Transluscent      Odour: barely noticeable

#### 2.1 Change of Condition

Boiling Point: not applicable  
Melting Point (DSC): 105°C (220°F)

#### 2.2 Density

appr. 1.1

#### 2.3 Vapor Pressure

N/A

#### 2.4 Viscosity (21.2N/160°C) DIN 53735

Type H = 100 Pas, Type J = 400 Pas

#### 2.5 Solvent Separation Test

N/A, ph not measurable

#### 2.6 Flash Point ASTM D1929

Inflammable at > 450°C (840°F)

LOI (lowest oxygen index) ASTM D 2863

< 23%

#### 2.8 Additional Information

Solid Content (%): 100  
Volatile by volume (%): Negligible, <2,5% H<sub>2</sub>O

#### 2.9 Stability and Reactivity

Stability: Stable  
Depolymerisation Threshold: 300°C (570°F)  
Volatiles at processing temperature: Free monomers are negligible (Caprolactame, Laurolactame)  
The processing temperature must not exceed 220°C (430°F) for an extended period of time.

#### 2.10 Possible Hazards

None

### 3 Transportation

by land } No special procedures required.  
by sea } Please also refer to  
by air } "Storage Conditions"

Further details regarding transp: None

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<b>4 Regulations</b>	
Reference Number/s and Hazard Indications/s of the product:	
R-Clauses:	N/A
S-Clauses:	N/A
Special Labelling:	No special labelling required
<b>4.1 National Regulations</b>	
Legislation on flammable liquids:	N/A
Water Polluting Class	Class 0
Technical Instructions for keeping the air clean:	
Class	o-Organic    o-Inorganic    o- Carcinogenic
II	
III	
<b>5 Precautions</b>	
<b>5.1 First Aid Procedures</b>	
After Inhalation:	N/A
After Skin Contact at application temperature:	Immediately immerse contacted area in cold water. Do not attempt to peel of adhesive film of skin!
After Eye Contact:	N/A
After Ingestion:	No immediate action required. Consult Physician.
<b>5.2 Fire Precautions:</b>	
Suitable Fire Extinguishers:	Foam, Carbondioxide, Dry chemical
Fire Fighting Procedures:	Oxygen Mask, procedure for chemical fires
<b>5.3 Spill or Leak Procedures:</b>	
In relation to people:	Sweep up
<b>6 Handling and Storage</b>	
	- Indoors
	- do not expose to direct sunlight:
	- minimum storage temperature: + 5°C (41°F)
	- maximum storage temperature: + 45°C (113°F)
	- minimum realive humidity: 20%
	- maximum relative humidity: 75%
gunold + stickma materials gmbh declines any warranty in regard to the bonding properties of the product if the above storage conditions are not observed.	

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### 7 Exposition Limits and Personal Protective Equipment

Elements of limits to be observed in relation to the work place

Solvent Nil  
MAK Value Product contains <4% Caprolactame

#### Personal Protective Equipment

General Protection and

Hygiene Measures: Ensure good ventilation particularly in proximity of fusing area

Respiratory Protection: Not required

Hand Protection: Not required

Eye Protection: Not required

Effects of overexposure: None known

8 Information on Environmental Safety (Ecology) None

9 Information on Toxicology Product not toxic

10 Information on Disposal / Waste Comply with local regulations.  
Product may be disposed of in landfill or burnt at incinerating plant.

11 Further Information None

The information provided is to the best of our knowledge, true and accurate and based upon studies conducted upon safety and handling instructions and upon own experience in manufacturing and handling of this product. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use or for unknown effects.