

**GUNOLD GmbH** 

# BSN Type I and Type H

Print date: 15.03.2012 Product code: VCSO-GD-002 Page 1 of 7

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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# 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Thermo film for embroideries, patches and emblems. Making embroidery edges and borders extremely durable.

# Uses advised against

In case of doubt please contact our responsible department.

# 1.3. Details of the supplier of the safety data sheet

Company name:

GUNOLD GmbH

Street:

e-mail:

Obernburger Straße 125

Place:

D-63811 Stockstadt

Telephone:

+49 (0)6027 - 2 00 80

e-mail:

service@gunold.de

Contact person:

Christoph Gunold

Internet:

c.gunold@gunold.de www.gunold.de

Responsible Department:

Qualität und Umwelt

1.4. Emergency telephone

+49 (0)6027 - 2 00 80 (Monday to Friday from 08:00 to 17:00)

Telefax: +49 (0)6027 - 37 72

Telephone: +49 (0)6027 - 2 00 80

<u>number:</u>

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

This mixture is not classified as dangerous according to Directive 1999/45/EC.

The present product is an article according to the Directive (EG) Nr. 1907/2006 (REACH-Regulation).

There is no legal obligation to create a safety data sheet for an article.

The information data sheet was developed to provide the same information that is typically available in safety data sheets.

We would like to point out expressly that this information data sheet was created on a voluntary basis and is not subject of the formal requirements of the REACH-Regulation.

#### 2.2. Label elements

### Additional advice on labelling

The product is not subject to labelling.

# 2.3. Other hazards

No product hazards known.

Dust generation may cause irritations (mechanically), but are not expected when used properly.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.



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# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Chemical characterization

Thermoplastic adhesive film based on a polyolefin copolyamide mixture (Article). According to supplier information the article does not contain any substances (SVHC) in concentrations with obligation to notify.

#### Hazardous components

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
203-313-2	epsylon-caprolactam	< 2,5 %
105-60-2	Xn, Xi R20/22-36/37/38	
613-069-00-2	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H332 H302 H319 H335 H315	

Full text of R- and H-phrases: see section 16.

#### **Further Information**

The components of this product are embedded into an impenetrable matrix and are therefore biologically not available. Several hazardous components are bound within the polymermatrix and are not dangerous if handled under normal processing and handling conditions. The additives in this product do not pose any risk of danger, if they are not released (by emitted smoke when melted, dusts).

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

First aid assistant: Pay attention to self-protection! Get medical advice/attention if you feel unwell.

#### After inhalation

In case of inhalation of decomposition products, take the affected person into the fresh air and sit him quietly. Seek medical attention if problems persist.

### After contact with skin

No special measures are necessary. After prolonged skin contact: Wash hands with soap and plenty of water. After contact with skin and melted polymer: 1. cooling with water, 2. don't peel solidified product of skin, 3. burns have to be clinically treated

#### After contact with eyes

Upon contact with dust or decomposition products: Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

No special measures are necessary.

# 4.2. Most important symptoms and effects, both acute and delayed

Not hazardous to health when used as intended.

Contact during processing with the hot product or the heat press / flat-iron can cause burns.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.



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# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Foam. Water fog. Extinguishing powder. Carbon dioxide (CO2).

# Extinguishing media which must not be used for safety reasons

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Upon exposure to fire, harmful gases may be emitted. When decomposed by heat (250°C and above), e.g. due to overheating during treatment, in case of fire or smoldering, hazardous fumes (especially carbon monoxide, carbon dioxide, acetic acid, hydrogen bromide) may develop.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

#### Additional information

Extinguishing materials should be selected according to the surrounding area.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

No special precautionary measures are necessary.

#### 6.2. Environmental precautions

No special environmental protection measures are necessary.

Do not allow uncontrolled leakage of product into the environment.

### 6.3. Methods and material for containment and cleaning up

Collect mechanically. Avoid generation of dust.

### 6.4. Reference to other sections

Treat the assimilated material according to the section on waste disposal.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Do not use above following temperatures: 220 °C

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Recommended storage temperature: 0 °C and 45 °C. Protect from sunlight and heat sources. Store in a cool, dry place.

# Further information on storage conditions

Take precautionary measures against static discharges and fire hazards.

# 7.3. Specific end use(s)

Thermo film for embroideries, patches and emblems. Making embroidery edges and borders extremely durable.



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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No.	Chemical name	ml/m³	mg/m³	F/ml	Category	Origin
105-60-2	1,6-Hexanolactam, dust and vapour	-	10	İ	TWA (8 h)	WEL
		-	20	1	STEL (15 min)	WEL

#### 8.2. Exposure controls

#### Occupational exposure controls

Do not inhalate aerially decomposition products. Ensure adequate ventilation.

#### Protective and hygiene measures

Wash hands before breaks and at the end of work. When using do not eat or drink.

#### Respiratory protection

In case of adequate ventilation: Respiratory protection not required.

Do not breathe potential fumes.

#### Hand protection

Within the recommended use no hand protection is required. Caution when handling with hot product!

# Eye protection

Within the recommended use, no eye protection is required. Wear eye protection in case of contact with decomposition products.

#### Skin protection

Skin protection: not required.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physica	ai and chemical properties
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Physical state:

solid, films

Colour:

light opaque

Odour:

pH-Value:

odourless

Test method

Chaussa in the ulcosical atta

not applicable

Changes in the physical state

Melting point: 100 - 110 °C
Boiling point: No data available

Flash point: No data available

Flammability

Solid: No data available
Gas: not applicable

Lower explosion limits:

Upper explosion limits:

No data available

No data available

Auto-ignition temperature

Solid: No data available
Gas: No data available

Oxidizing properties

No data available



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Vapour pressure:

not applicable

Density:

1,1 g/cm<sup>3</sup>

Water solubility:

insoluble

Solubility in other solvents:

No data available

Partition coefficient:

No data available

Viscosity / dynamic:

not applicable

Viscosity / kinematic:

not applicable

Vapour density:

No data available

Evaporation rate:

No data available

### 9.2. Other information

Temperature of decomposition: 250°C

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactivity under regular conditions.

#### 10.2. Chemical stability

The product is stable under normal environmental conditions (room temperature).

### 10.3. Possibility of hazardous reactions

When properly used, no hazardous reactions are expected.

#### 10.4. Conditions to avoid

Avoid greater temperatures exceeding the process limitations over longer periods of time.

# 10.5. Incompatible materials

none known

#### 10.6. Hazardous decomposition products

When decomposed by heat (250°C and above), e.g. due to overheating during treatment, in case of fire or smoldering, hazardous fumes (especially carbon monoxide, carbon dioxide, acetic acid, hydrogen bromide) may develop.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

### Acute toxicity

No information available.

CAS No.	Chemical name						
	Exposure routes	Method	Dose	Species	h Source		
105-60-2	epsylon-caprolactam						
	Acute oral toxicity	LD50	1210 mg/kg	Ratte	GESTIS		

### Irritation and corrosivity

Possible irritation of eyes and skin when dust or decomposition products are present. Skin irritation caused by the ingredients of the product is not known.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Toxicological data are not available.



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CAS No.	Chemical name					
	Aquatic toxicity	Method	Dose	Species	h	Source
105-60-2	epsylon-caprolactam					

500 - 1000

4550 mg/l

Onchorhynchus mykiss

Algen

96

72

**GESTIS** 

LC50

ErC50

### 12.2. Persistence and degradability

No data available

Acute fish toxicity

Acute algae toxicity

# 12.3. Bioaccumulative potential

No data available

#### Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
105-60-2	epsylon-caprolactam	-0,19

#### 12.4. Mobility in soil

No data available

# 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

# Advice on disposal

Waste disposal according to official state regulations. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge. Dispose film remnants and manufactured film as hardened plastic waste.

# Contaminated packaging

Cleaned containers may be recycled.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Other applicable information (land transport)

Not a hazardous material with respect to these transportation regulations.

### Inland waterways transport

#### Other applicable information (inland waterways transport)

Not a hazardous material with respect to these transportation regulations.

#### Marine transport

#### Other applicable information (marine transport)

Not a hazardous material with respect to these transportation regulations.

#### Air transport



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# Other applicable information (air transport)

Not a hazardous material with respect to these transportation regulations.

### 14.5. Environmental hazards

Dangerous for the environment:

no

#### 14.6. Special precautions for user

No special precautionary measures are necessary.

# **SECTION 15: Regulatory information**

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

# National regulatory information

Water contaminating class (D):

- - not water contaminating

#### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

#### Changes

Version 1,00 - first creation - 19.07.2011 - Version 1,01 -product name changed - 15.03.2012

# Full text of R-phrases referred to under sections 2 and 3

Harmful by inhalation and if swallowed.

Irritating to eyes, respiratory system and skin.

# Full text of H-Statements referred to under sections 2 and 3

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation.

### **Further Information**

The information given in this product information data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The product information data sheet was generated upon information of pre-suppliers by:

VESCON Solutions GmbH, Ebersbacher Straße 101, 63743 Aschaffenburg, Phone: 06021 - 1 50 86-0, Fax: 06021 - 1 50 86-77, E-Mail: eu-sds@vescon.com

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)