

according to Regulation (EC) No 1907/2006

SECTION 1: Identification of the substance/mixture and of the company/undertaking  I.1. Product identifier IsovaleryI-VaI-VaI-Sta-OEt CAS No: 120849-36-7  1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Laboratory chemicals  1.3. Details of the supplier of the safety data sheet Company name: Bachem AG Street: Hauptstrasse 144 Place: CH-4416 Bubendorf Telephone: +41 58 595 2021 Telefax: +41 58 595 2040 e-mail (Contact person): msds@bachem.com Responsible Department: Department: Global Marketing 1.4. Emergency telephone +41 44 251 51 51 (Tox Info Suisse) rumber:  SECTION 2: Hazards identification  2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008 This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.  3. Label elements Hazard components for labelling		Isovaleryl-Val-Val-Sta-OE	t	
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	Hazard components for labell	ng		
	SECTION 3: Composition/info	rmation on ingredients		
3.1. Substances	3.1. Substances			

. I. Oubstances	
Sum formula:	C25H47N3O6
Molecular weight:	485.66

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

## 4.1. Description of first aid measures

#### **General information**

Change contaminated, saturated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

#### After contact with skin

Rinse cautiously with water for several minutes. If medical advice is needed, have product container or label at hand.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After ingestion

IF SWALLOWED: rinse mouth. Never give anything by mouth to an unconscious person or a person with

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cramps. Get medical advice/attention if you feel unwell.

#### <u>4.2. Most important symptoms and effects, both acute and delayed</u> No information available.

No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed** No information available.

SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry extinguishing powder

Unsuitable extinguishing media

#### No information available.

## 5.2. Special hazards arising from the substance or mixture

Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx)

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Remove persons to safety.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

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

Collect spillage. Avoid dust formation.

## 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Keep container tightly closed and dry.

#### Advice on protection against fire and explosion

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Further information on handling

No information available.

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

## Requirements for storage rooms and vessels

Store in a dry place. Store in a closed container.

## Hints on joint storage

Do not store together with: Food and feedingstuffs

## Further information on storage conditions

Protect against:



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Heat Humidity

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

Work in well-ventilated zones or use proper respiratory protection. Only wear fitting, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothes. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink or smoke.

#### Eye/face protection

Suitable eye protection: Eye glasses with side protection goggles

#### Hand protection

Wear protective gloves.

Suitable material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Protective clothing

### **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.:

Self-contained respirator (breathing apparatus) (DIN EN 133) Combination filtering device (EN 14387)

#### **Environmental exposure controls**

Avoid release to the environment.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	white	
Odour:	This information is not available.	
Odour threshold:	This information is not available.	
pH-Value:		No data available
Changes in the physical state		
<b>j</b>		
Melting point:		No data available
• • • •		No data available No data available
Melting point:		
Melting point: Initial boiling point and boiling range:		No data available
Melting point: Initial boiling point and boiling range: Sublimation point:		No data available No data available



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Flash point:	No data available	
Sustaining combustion:	No data available	
Explosive properties No data available		
Lower explosion limits:	No data available	
Upper explosion limits:	No data available	
Ignition temperature:	No data available	
Decomposition temperature:	No data available	
Oxidizing properties No data available		
Vapour pressure:	No data available	
Density:	No data available	
Bulk density:	No data available	
Water solubility:	No data available	
Partition coefficient:	No data available	
Viscosity / dynamic:	No data available	
Viscosity / kinematic:	No data available	
Vapour density:	No data available	
Evaporation rate:	No data available	
Solvent content:	No data available	
0.2. Other information		
No data available		

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No data available

## 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

No data available

## 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

#### **Further information**

No data available

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.



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## Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

The product has not been tested.

## 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

Further information

## Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.



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14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	no	
14.6. Special precautions for user		
No dangerous good in sense of this transport regulation.		
14.7. Transport in bulk according to Annex		
No dangerous good in sense of this t	ransport regulation.	

### **SECTION 15: Regulatory information**

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

#### National regulatory information

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID:Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Refulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) CAS: Chemical Abstracts Service (division of the American Chemical Society) GHS: Globally Harmonized System of Classification and Labelling of Chemicals CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures ATE: Acute toxic estimate LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent EC50: Effectice concentration, 50 percent DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative **Further Information** 

The information is based on the present level of our knowledge. It does not, however, give assurance of



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product properties and establishes no contract legal rights.