

# SAFETY DATA SHEET

Revision date 2021-Apr-16

Revision number 1.04

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name BISOMER<sup>®</sup> BZMA  
Product code 5007932  
Synonyms Benzyl methacrylate  
REACH registration number 01-2119960155-39-0007

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

Recommended use [RU] Monomer for special polymers  
Uses advised against None known

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

**Supplier**  
GEO Specialty Chemicals UK Ltd  
Charleston Road, Hardley, Hythe  
Southampton, Hampshire SO45 3ZG  
United Kingdom  
Phone: +44 (0)23 80894666  
Fax No: +44 (0)23 80243113

**Responsibility Statement** For further information, please contact [safety-data-sheet-fp@geosc.com](mailto:safety-data-sheet-fp@geosc.com)

### 1.4 Emergency telephone number

**Emergency telephone** 24 Hour Emergency Phone Number  
GEO Specialty Chemicals UK Ltd  
+44 (0)23 80891806

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

### 2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



**Signal word** WARNING

**Hazard statements**

H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation

**Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P262 - Do not get in eyes, on skin, or on clothing  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**2.3 Other Information**

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Component	EU EINECS	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	(REACH) Regulation (EC 1907/2006)
Benzyl methacrylate 2495-37-6	219-674-4	> 98	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Skin Sens. 1 (H317)	Registration Number 01-2119960155-39-0007

For the full text of the H-Statements mentioned in this Section, see Section 16.

**3.2 Mixtures**

Not applicable

## 4. FIRST AID MEASURES

**4.1 Description of first aid measures**

**General advice**

In case of adverse health effects seek medical advice.

**Eye contact**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Skin contact**

Rinse with running water and soap. Remove contaminated clothing and shoes.

**Ingestion**

Rinse mouth with water, then drink one or two glasses of water.

**Inhalation**

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**4.2 Most important symptoms and effects, both acute and delayed****Most important symptoms and effects**

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed****Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet, Alcohol-resistant foam, Extinguishing powder, Carbon dioxide.

**Extinguishing media which must not be used for safety reasons**

High pressure waterjet.

**5.2 Special hazards arising from the substance or mixture****Special Hazard**

Formation of toxic gases is possible during heating or in fires. The product may undergo spontaneous polymerization at high temperatures. Polymerization is exothermic and may cause damage to the container and/or release of thermal decomposition products.

**5.3 Advice for firefighters****Special protective equipment for firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**Firefighting measures**

Cool exposed containers with water spray after extinguishing fire.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures****Personal precautions**

Wear suitable protective clothing and gloves.

**6.2 Environmental precautions****Environmental precautions**

Inform authorities in the event of product spillage to water courses or sewage systems. Do not empty into drains/surface water/ground water.

**6.3 Methods and material for containment and cleaning up****Methods for cleaning up**

Remove with liquid-absorbing material (sand, peat, sawdust). Dispose of contaminated material as waste according to Section 13.

**6.4 Reference to other sections**

See Section 12 for additional Ecological Information

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Advice on safe handling

Avoid contact with eyes, skin and clothing

Avoid breathing vapors or mists

Use only in well-ventilated areas

Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing.

Wash thoroughly after handling

Ensure that eyewash stations and safety showers are close to the workstation location

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

#### Technical measures and storage conditions

The product is stabilized against spontaneous polymerization before delivery. However, if the permissible storage time or storage temperature are greatly exceeded the product may polymerize.

Keep only in the original container in a cool, well-ventilated place

Store at temperatures not exceeding 25 °C/ 77 °F

Store in a dry place. Store away from direct heat or sunlight.

Tanks should preferably contain no dead spaces where the product can be trapped and polymerize. Internal structural members should therefore be kept to a minimum and tanks should be welded.

Storage tank vents, especially those fitted with flame arrestors, should be inspected regularly for polymer fouling which can arise from vapor phase polymerization.

Do not store together with reductants.

Do not store together with oxidants.

### 7.3 Specific end use(s)

#### Specific use(s)

Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational exposure limit value

Component	European Union	United Kingdom	Spain	Germany
Benzyl methacrylate 2495-37-6	NAV	NAV	NAV	NAV

#### Biological limit values

Component	European Union	United Kingdom	Spain	Germany
Benzyl methacrylate 2495-37-6	NAV	NAV	NAV	NAV

#### Legend

NAV - Not available

### 8.2 Exposure controls

#### Personal Protective Equipment

##### Eye/face Protection

If splashes are likely to occur: Chemical Goggles.

##### Hand Protection

Polychloroprene gloves. Coating thickness 1.1 mm. Level 5 > 240 min breakthrough time.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

Filter A2 is recommended in cases of prolonged exposure.

**Other personal protection data**

Eyewash fountains and safety showers must be easily accessible.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

No information available.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	liquid
<b>Color</b>	colorless
<b>Appearance</b>	clear
<b>Odor</b>	characteristic
<b>Odor threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>
<b>pH</b>	No information available	No information available
<b>Melting / freezing point</b>	No information available	No information available
<b>Boiling point / boiling range</b>	> 230 °C / > 446 °F @ 1013 mbar	No information available
<b>Flash point</b>	> 100 °C / > 212 °F	DIN 51758
<b>Evaporation rate</b>	No information available	No information available
<b>Flammability (solid, gas)</b>	No information available	No information available
<b>Flammability Limit in Air</b>		
Upper flammability limit	No information available	No information available
Lower flammability limit	No information available	No information available
<b>Vapor pressure</b>	No information available	No information available
<b>Vapor density</b>	No information available	No information available
<b>Specific gravity</b>	No information available	No information available
<b>Solubility (water)</b>	insoluble	No information available
<b>Solubility in other solvents</b>	No information available	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available	No information available
<b>Autoignition temperature</b>	No information available	No information available
<b>Decomposition temperature</b>	No information available	No information available
<b>Kinematic viscosity</b>	No information available	No information available
<b>Dynamic viscosity</b>	4 mPa s @ 20 °C	No information available

**Density**1.04 g/cm<sup>3</sup> @ 20 °C

ASTM D 1298-99

**9.2 Other information**

<b>Bulk Density</b>	No information available
<b>Explosive properties</b>	Can polymerize violently.
<b>Oxidizing properties</b>	The substance or mixture is not classified as oxidizing.
<b>Softening point</b>	No information available
<b>Molecular weight</b>	176 g/mol
<b>Volatile Organic Compound (VOC) content, wt.%</b>	No information available
<b>Percent Volatile, wt.%</b>	No information available

**10. STABILITY AND REACTIVITY****10.1 Reactivity****Reactivity**

Polymerizes readily unless inhibited. Polymerization is highly exothermic and, if not controlled, may be violent.

**10.2 Chemical stability****Chemical stability**

Stable under normal conditions of handling, use and transportation. Periodic air sparging in storage will assist long term stability.

**10.3 Possibility of hazardous reactions****Hazardous polymerization**

May occur if inhibitor is depleted or if exposed to high temperature.

**10.4 Conditions to avoid****Conditions to avoid**

This product contains a peroxidation inhibitor. To maintain inhibitor activity, oxygen must not be eliminated from the atmosphere above the product. Avoid radical forming substances (metal-ions, peroxides). Avoid heating. If prolonged excursions above the recommended storage temperature occur, then the rate of inhibitor depletion could accelerate, leading to an increased risk of polymerization. In these circumstances it is recommended that the inhibitor level be checked periodically using ASTM procedure D 3125, and more inhibitor added if depletion is observed.

**10.5 Incompatible materials****Materials to avoid**

Reaction with oxidants. Reaction with reducing agents.

**10.6 Hazardous decomposition products****Hazardous decomposition products**

Carbon oxides. Irritating vapors.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute health hazard****Eye contact**

Causes eye irritation.

**Skin contact**

Causes skin irritation. May cause sensitization by skin contact.

**Ingestion**

May be harmful if swallowed.

**Inhalation**

May cause respiratory irritation.

**Acute toxicity**

**Oral LD50** > 2000 mg/kg (EU classification)

**Dermal LD50** No information available

**Inhalation LC50** No information available

**Skin corrosion/irritation**

Irritating (EU classification)

**Serious eye damage/eye irritation**

Irritating (EU classification)

**Sensitization**

May cause sensitization by skin contact

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

No information available

**Reproductive toxicity**

No information available

**Specific target organ toxicity - Single exposure**

Irritating to respiratory system

**Specific target organ toxicity - Repeated exposure**

No information available

**Aspiration hazard**

No information available

## 12. ECOLOGICAL INFORMATION

### **12.1 Toxicity**

**Acute aquatic toxicity**

**Fish** No information available

**Crustacea** No information available

**Algae/aquatic plants** No information available

### **12.2 Persistence and degradability**

**Persistence and degradability**

No information available

### **12.3 Bioaccumulative potential**

**Bioaccumulative potential**

No information available

### **12.4 Mobility in soil**

**Mobility**

No information available.

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

**PBT and vPvB assessment**

No information available

### **12.6 Other adverse effects**

**Other information**

No other ecological studies have been carried out on this product.

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

**Disposal of wastes**

Dispose of according to regulations.

**Contaminated packaging**

Disposal must be made according to official regulations. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

## **14. TRANSPORT INFORMATION**

**US DOT** Not regulated

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user**

**Land transport (ADR/RID)** Not regulated

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user**

**Air transport (ICAO-TI / IATA-DGR)** Not regulated

**14.1. UN number****14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user**

**Sea transport (IMDG)** Not regulated

**14.1. UN number****14.2. UN proper shipping name**

**14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories****Australia (AICS)**

All ingredients are on the inventory or exempt from listing

**Canada (DSL)**

All ingredients are on the inventory or exempt from listing

**Canada (NDSL)**

None of the ingredients are on the inventory.

**China (IECSC)**

All ingredients are on the inventory or exempt from listing

**European Union (EINECS)**

All ingredients are on the inventory or exempt from listing

**European Union (ELINCS)**

None of the ingredients are on the inventory.

**Japan (ENCS)**

All ingredients are on the inventory or exempt from listing

**South Korea (KECL)**

All ingredients are on the inventory or exempt from listing

**Philippines (PICCS)**

All ingredients are on the inventory or exempt from listing

**United States (TSCA)**

All ingredients are on the inventory or exempt from listing

**Legend****AICS** - Australian Inventory of Chemical Substances**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**IECSC** - China Inventory of Existing Chemical Substances**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**15.2 Chemical Safety Report**

No information available.

**16. OTHER INFORMATION**

Product code

5007932

Revision date 2021-Apr-16

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

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

**Key or legend to abbreviations and acronyms used in the safety data sheet**

NAV - Not available

**This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.**

**Additional information**

BISOMER® is a registered trademark of GEO Specialty Chemicals UK Ltd.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.