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

1.1 Product identifier

Product name: BISOMER® PEG 200 DMA SP  
Product code: 745812  
Synonyms: Polyethylene glycol dimethacrylate

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

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]:  
This substance is not classified as dangerous according to regulation (EC) 1272/2008 [GHS].

2.2 Label elements

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

Signal word: Not classified
Hazard statements: None
Precautionary statements
None

2.3 Other Information
None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methacrylic acid, diester with EO 25852-47-5</td>
<td>Not applicable</td>
<td>&gt; 94</td>
<td>Not Classified as Hazardous</td>
<td>In compliance</td>
</tr>
</tbody>
</table>

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. If skin irritation occurs: Get medical advice/attention.

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

Inhalation
Remove to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects
None known.

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

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
Use only in well-ventilated areas
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 oxidants.
Do not store together with reductants.
7.3 Specific end use(s)

Specific use(s)
Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit value

<table>
<thead>
<tr>
<th>Component</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>Spain</th>
<th>Germany</th>
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<tbody>
<tr>
<td>Methacrylic acid, diester with EO 25852-47-5</td>
<td>NAV</td>
<td>NAV</td>
<td>NAV</td>
<td>NAV</td>
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</tbody>
</table>

Biological limit values

<table>
<thead>
<tr>
<th>Component</th>
<th>European Union</th>
<th>United Kingdom</th>
<th>Spain</th>
<th>Germany</th>
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</thead>
<tbody>
<tr>
<td>Methacrylic acid, diester with EO 25852-47-5</td>
<td>NAV</td>
<td>NAV</td>
<td>NAV</td>
<td>NAV</td>
</tr>
</tbody>
</table>

Legend
NAV - Not available

8.2 Exposure controls

Personal Protective Equipment

Eye/face Protection
Tight sealing safety 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
Use only in well-ventilated areas. 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
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<td></td>
</tr>
<tr>
<td>Color</td>
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<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>clear</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>little intrinsic odor</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
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<td>No information available</td>
</tr>
</tbody>
</table>
9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Method</th>
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</thead>
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<tr>
<td>Bulk Density</td>
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<tr>
<td>Explosive properties</td>
<td>Can polymerize violently.</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing.</td>
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<tr>
<td>Softening point</td>
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<tr>
<td>Molecular weight</td>
<td>338 g/mol</td>
<td></td>
</tr>
<tr>
<td>Volatile Organic Compound (VOC) content, wt.%</td>
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<td></td>
</tr>
<tr>
<td>Percent Volatile, wt.%</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

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
**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**
May cause slight irritation.

**Skin contact**
This product is not considered to be a skin irritant.

**Ingestion**
Low toxicity by this route.

**Inhalation**
None known.

**Acute toxicity**

**Oral LD50**
> 2,000 mg/kg

**Dermal LD50**
No information available

**Inhalation LC50**
No information available

**Skin corrosion/irritation**
Not irritating
Method: OECD Test No. 404: Acute Dermal Irritation/Corrosion

**Serious eye damage/eye irritation**
Not irritating
Method: OECD Test No. 405: Acute Eye Irritation/Corrosion

**Sensitization**
Dermal sensitization: non-sensitizing
Method: OECD Test No. 406: Skin Sensitization

**Germ cell mutagenicity**
No information available
Carcinogenicity
No information available

Reproductive toxicity
No information available

Specific target organ toxicity - Single exposure
No information available

Specific target organ toxicity - Repeated exposure
No information available

Aspiration hazard
No information available

### 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

**Acute aquatic toxicity**

- **Fish**
  - LC50 > 10 - <= 100 mg/L
- **Crustacea**
  - No information available
- **Bacteria toxicity**
  - EC0 > 10 - <= 100 mg/l.
- **Algae/aquatic plants**
  - No information available

#### 12.2 Persistence and degradability

- **Persistence and degradability**
  - No information available

  **Ultimate biodegradation**
  The total of the organic components contained in the product achieve > 60% BOD/COD or CO2 liberation, or > 70% DOC reduction in tests for ease of degradability - threshold values for ‘readily degradable’ (e.g. to OECD method 301) are reached.

#### 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
Waste incineration with the approval of the responsible local authority.

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
745812

Revision date
2019-Apr-29

Full text of H-Statements referred to under sections 2 and 3
None

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
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