



G E O[®]
SPECIALTY CHEMICALS

MATERIAL SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name: BISOMER[®] PPM 5 HI

Synonyms None

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

Contact Point safety-data-sheet-fp@geosc.com

NFPA Rating: Health: 1 Flammability: 1 Reactivity: 1
HMIS Classification: Health: 1 Flammability: 1 Reactivity: 1

EMERGENCY TELEPHONE:
CHEMTREC: (800) 424-9300
Outside USA - 00 1 (703) 527-3887 collect calls accepted

EMERGENCY OVERVIEW
Colorless Liquid. Harmful to aquatic organisms.

Section 2: HAZARDS IDENTIFICATION

Hazard Information

May cause eye, skin and respiratory tract irritation.

Eye contact

May cause slight irritation.

Skin contact

None to only slight irritation expected.

Inhalation

None known

Ingestion

Low toxicity by this route.

Aggravated Medical Conditions

None known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component name CAS Number	weight-%	OSHA - PEL's	ACGIH 2002 - TLV's
Polypropylene glycol monomethacrylate 39420-45-6	>= 70	Not Established	Not Established
Hydroxypropyl methacrylate 27813-02-1	>= 5 - < 10	Not Established	Not Established
Polypropylene glycol 25322-69-4	>= 3 - <= 4	Not Established	Not Established

Section 4: FIRST AID MEASURES

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 irritation should develop, get medical attention.

Inhalation

Remove to fresh air

Ingestion

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

Notes to Physician

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flash point 105 °C / 221 °F

Autoignition temperature No information available

Flammable Limits in Air - Lower (%): No information available

Flammable Limits in Air - Upper (%): No information available

Suitable extinguishing media

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

Firefighting measures

Cool exposed containers with water spray after extinguishing fire.

Specific hazards during fire fighting:

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.

Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

Section 6: ACCIDENTAL RELEASE MEASURES

Procedure for Cleaning/Absorption:

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

Personal precautions

Wear suitable protective clothing and gloves.

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.

Section 7: HANDLING AND STORAGE

Advice on safe handling

Use only in well-ventilated areas

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

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

Store in original closed containers in a cool, well-ventilated area

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.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Respiratory protection

Use only in well-ventilated areas Filter A2 is recommended in cases of prolonged exposure.

Hand protection

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

Skin and Body Protection

Wear suitable protective clothing

Eye/face protection

Tightly fitting safety goggles

Other Personal Protection Data

Eyewash fountains and safety showers must be easily accessible.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Color	colorless

Appearance	clear
Odor	characteristic
pH	< 7.0
Specific gravity	No information available
Density	1.0160 g/cm ³ - ASTM D 1298-99
Bulk density	No information available
Flash point	105 °C / 221 °F
Autoignition temperature	No information available
Boiling point / boiling range	No information available
Melting / freezing point	No information available
Vapor pressure	No information available
Vapor density	No information available
Percent Volatile, wt.%	No information available
Evaporation rate	No information available
Solubility (water)	Appreciable; >10%
Solubility in other solvents	No information available
Volatile organic compounds (VOCs) content	No information available
Dynamic viscosity	No information available
Kinematic viscosity	40.00 mm ² /s - ASTM D 445-97
Molecular weight	376 g/mol

Section 10: STABILITY AND REACTIVITY

Chemical stability

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

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.

Materials to avoid

Reaction with oxidants. Reaction with reducing agents.

Hazardous decomposition products

Carbon Monoxide and Carbon Dioxide. Irritating vapors.

Hazardous polymerization

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

Additional Guidelines:

None

Section 11: TOXICOLOGICAL INFORMATION**PRINCIPAL ROUTES OF EXPOSURE:** None known**Ingestion**

Low toxicity by this route.

Skin contact

None to only slight irritation expected.

Inhalation

None known

Eye contact

May cause slight irritation.

Carcinogenicity Status

This product does not contain any components in concentrations greater than or equal to 0.1% that are listed as known or suspected carcinogens by NTP, IARC, ACGIH, or OSHA.

Acute toxicity**Oral LD50** > 2000 mg/kg body weight**Dermal LD50** No information available**Inhalation LC50** No information available

Acute Toxicity of Individual Components			
Component name CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Hydroxypropyl methacrylate 27813-02-1	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	--
Polypropylene glycol 25322-69-4	2 g/kg (Rat)	--	--

Mutagenicity/Genotoxicity

No mutagenicity or genotoxicity studies have been carried out with this product.

Skin corrosion/irritation

Not Irritating

Serious eye damage/eye irritation

Not Irritating

Sensitization

Dermal sensitization: non-sensitizing

Method: OECD 406

Other information

Conclusions are drawn from sources other than direct testing.

Section 12: ECOLOGICAL INFORMATION**Ecotoxicological Information****Acute aquatic toxicity**

Fish	LC50 > 100 mg/L
Crustacea	EC50 > 10 - <= 100 mg product/L
Algae/aquatic plants	No information available
Bacteria toxicity	EC0 > 100 mg product/L.

Mobility

No information available

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Ultimate biodegradation

The total of the organic components contained in the product achieve values below 60% BOD/COD or CO₂ liberation, or below 70% DOC reduction in tests for ease of degradability. Threshold values for 'readily degradable' (e.g. to OECD method 301) are not reached.

Chemical Fate Information

No information available

Other information

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

Section 13: DISPOSAL CONSIDERATIONS**Disposal of wastes**

Waste incineration with the approval of the responsible local authority.

Contaminated packaging:

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

RCRA

Is the unused product a RCRA hazardous waste if discarded? (Yes/No)	No
If yes, the EPA Hazardous Waste Code is:	N/A

Section 14: TRANSPORT INFORMATION

DOT

Status Not regulated

ICAO/IATA

Status Not regulated

IMDG:

Status Not regulated

Flash point 105 °C / 221 °F

Section 15: REGULATORY INFORMATION

International Inventories:

TSCA (United States)

All ingredients are on the inventory or exempt from listing

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

EINECS (European Inventory of Existing Chemical Substances)

All ingredients are on the inventory or exempt from listing

ELINCS (European List of Notified Chemical Substances)

All of the components of this product are not listed on ELINCS.

ENCS (Japan)

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

Polypropylene glycol (25322-69-4) CAA - Hazardous Air Pollutants:	Listed
Polypropylene glycol (25322-69-4) Minnesota Hazardous Substance List	Listed

New Jersey Trade Secret Registry Number(s):

N/A

SARA Section 311/ 312 Hazard Class:

This product is classified as a SARA ACUTE HEALTH HAZARD.

Other information

This product does not contain any ingredients subject to the reporting requirements of SARA Title III, Section 313 (40 CFR Part 372).

CALIFORNIA PROP 65: WARNING! This product may contain traces of a substance(s) known to the State of California to cause cancer.

Section 16: OTHER INFORMATION

Product code	745776
Revision date	2013-09-06
Revision Number	1.02
Additional information	None
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

END OF MSDS