

## Section 1 - Identification

<b>Product Name</b>	Carboxyl-Activated MagPoly Beads
<b>Cat. No.</b>	MAGP021, MAGP022, MAGP023, MAGP024, MAGP025
<b>Product Type</b>	Liquid
<b>Company</b>	Bio Basic Asia Pacific Pte Ltd. 2 International Business Park Road Strategy #01-04, Singapore 609930
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## Section 2 - Hazards Identification

### GHS-Classification

<b>Classification of the Substance of mixture</b>	Acute Toxicity-Oral-Category 3 Acute Toxicity-Dermal-Category 2 Acute Toxicity-Inhalation-Category 2 Hazardous To Aquatic Environment-Short-Term (Acute) Hazard-Category 3 Hazardous To Aquatic Environment-Long-Term (Chronic) Hazard-Category 2
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**Signal Word** Danger

### Hazard Pictograms



<b>Hazard Statements</b>	H301 - Toxic if swallowed H310 - Fatal in contact with skin H330 - Fatal if inhaled H402 - Harmful to aquatic life H411 - Toxic to aquatic life with long lasting effects
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### Precautionary Statements

<b>Prevention</b>	P260-Do not breathe gas/mist/vapor/spray. P262-Do not get in eyes, on skin, or on clothing. P264-Wash hands and other parts of the body (if related) thoroughly after handling. P270-Do not eat, drink or smoke when using this product. P271-Use only outdoors or with adequate ventilation. P273-Avoid release to the environment. P280-Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P284-In case of inadequate ventilation wear respiratory protection.
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<b>Response</b>	P310-Immediately call a POISON CENTER/doctor. P320-Specific treatment is urgent (see related instructions on the label). P321-Specific treatment (see related instructions on the label).
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P322-Specific treatment (see on the label).  
 P330-Rinse mouth.  
 P361-Take off immediately all contaminated clothing.  
 P363-Wash contaminated clothing before reuse.  
 P391-Collect spillage.  
 P301+P310-IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
 P302+P350-IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Storage**

P405-Store locked up.  
 P403+P233-Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

P501 - Dispose of contents/container to all local, regional, national and international regulations.

**Physical hazards**

No information available

**Healthy hazards**

**Inhaled**

Inhalation of vapors or aerosols (mists, fumes), generated by the product during normal handling, may produce severely toxic effects; these may be fatal

**Ingestion**

Toxic effects may result from the accidental ingestion of the product

**Skin Contact**

Skin contact with the product may produce severely toxic effects; systemic effects may result following absorption and these may be fatal

**Eye**

This product may cause temporary discomfort following direct contact with eye

**Environmental Hazards**

This product is toxic to aquatic life with long lasting effects. Please refer to 12th chapter of SDS

### Section 3 - Composition / Information on Ingredients

Substance/Mixture	Mixture	
Component	CAS No.	Weight %
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one	55965-84-9	<= 0.05
Sorbitan monolaurate, ethoxylated	9005-64-5	<= 0.01

### Section 4 - First Aid Measures

**Skin Contact**

Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.

**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

**Inhalation**

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

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<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Protecting first aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

**Advice for protecting the rescuer**

Remove all sources of ignition and increase ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use personal protective equipment including respirator.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Symptoms may be delayed.

## Section 5 - Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use extinguishing media suitable for surrounding area.
<b>Unsuitable Extinguishing Media</b>	There is no restriction on the type of extinguisher which may be used.
<b>Specific Hazards arising from the chemical</b>	Development of hazardous combustion gases or vapor is possible in the event of fire. May expansion or decompose explosively when heated or involved in fire.
<b>Advice for firefighters</b>	As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. Fight fire from a safe distance, with adequate cover. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## Section 6 - Accidental Release Measures

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

<b>Personal precautions, protective equipment and emergency procedures</b>	Use personal protective equipment, do not breathe gas/mist/vapor/spray. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Discharge into the environment must be avoided.
<b>Methods for Cleaning Up</b>	Cut off the source of the leak as much as possible. Keep leaks in a ventilated place. Absorb spilled material in dry sand or inert absorbent. In case of large amounts of spillage, contain a spill by bunding. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Contain spillage and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

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## Section 7 - Handling and Storage

<b>Precautions for handling</b>	Handling is performed in a well-ventilated place. Wear suitable protective equipment. Avoid contact with skin and eyes. Keep away from heat / sparks / open flames / hot surfaces.
<b>Precautions for storage</b>	Store at 2-8°C, Keep containers tightly closed. Keep containers in a dry, cool and well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. Store away from incompatible materials and foodstuff containers.

## Section 8 - Exposure Controls/Personal Protection Equipment

### Control parameters

### Occupational Exposure limit values

No relevant regulations

### Biological limit values

No relevant regulations

### Monitoring methods

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. GBZ/T 300 series standard Determination of toxic substances in workplace air.

### Engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Set up emergency exit and necessary risk-elimination area.

### Personal Protective Equipment

<b>Eye protection</b>	Must wear appropriate safety goggles.
<b>Hand protection</b>	Must wear appropriate chemical protective gloves.
<b>Respiratory protection</b>	Must wear appropriate personal dustproof gas mask.
<b>Skin and body protection</b>	Must wear appropriate chemical protective clothing and chemical resistant shoes.

## Section 9 - Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Color</b>	Black or brown
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting/freezing point (°C)</b>	22.2 (1atm, reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one )
<b>Initial boiling point/range (°C)</b>	> 100 (Sorbitan monolaurate, ethoxylated)
<b>Flash point (Closed cup, °C)</b>	> 126 (Sorbitan monolaurate, ethoxylated)
<b>Evaporation rate</b>	No information available



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<b>Flammability</b>	No information available
<b>Upper/lower explosive limits[%(v/v)]</b>	Upper limit: No information available; Lower limit: No information available
<b>Vapor pressure</b>	< 0.1kPa (Sorbitan monolaurate, ethoxylated)
<b>Vapor density (Air = 1)</b>	< 0.1 (Sorbitan monolaurate, ethoxylated)
<b>Relative density (Water=1)</b>	1.07 (Sorbitan monolaurate, ethoxylated)
<b>Solubility(mg/L)</b>	Miscible with water (Sorbitan monolaurate, ethoxylated)
<b>n-octanol/water partition coefficient</b>	1.23 - 3.86 (Sorbitan monolaurate, ethoxylated)
<b>Auto-ignition temperature (°C)</b>	No information available
<b>Decomposition temperature (°C)</b>	No information available
<b>Kinematic viscosity(mm<sup>2</sup>/s)</b>	No information available

## Section 10 - Stability and Reactivity

<b>Reactivity</b>	Contact with incompatible substances can cause decomposition or other chemical reactions.
<b>Chemical stability</b>	Stable under proper operation and storage conditions.
<b>Incompatible materials</b>	No information available.
<b>Possibility of hazardous reactions</b>	No information available.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Conditions to avoid</b>	Incompatible materials, heat, flame and spark.

## Section 11 - Toxicological Information

### Information on toxicological effects

#### Acute toxicity

Component/ Cas No.	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	53mg/kg (Rat)	No information available	0.171mg/L(Rat)
Sorbitan monolaurate, ethoxylated	> 33000mg/kg (Mouse)	No information available	No information available

#### Carcinogenicity

Component/ Cas No.	IARC	NTP
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	Not Listed	Not Listed
Sorbitan monolaurate, ethoxylated	Not Listed	Not Listed



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**Others**

<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity(additional)</b>	Based on available data, the classification criteria are not met

## Section 12 - Ecological Information

**Product/ingredient name**

**Acute aquatic toxicity**

Component	Fish	Crustaceans	Algae
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	LC50: 0.19mg/L (96h) (Fish)	EC50: 0.16mg/L (48h) (Crustaceans)	ErC50: 0.0199mg/L (72h) (Algae)

**Chronic aquatic toxicity**

Component	Fish	Crustaceans	Algae
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	NOEC: 0.02mg/L(Fish)	No information available	No information available

**Persistence and degradability**

Component	Cas No.	Persistence (water/soil)	Persistence (air)
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	55965-84-9	High	High

**Bioaccumulative potential**

Component	Cas No.	Bioaccumulative potential	comments
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	55965-84-9	Low	Log Kow=0.0444

**Mobility in soil**

Component	Cas No.	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	55965-84-9	Low	45.15

## Results of PBT and vPvB assessment

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Sorbitan monolaurate, ethoxylated	9005-64-5	Not PBT/vPvB
reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one	55965-84-9	Insufficient information, temporarily unable to evaluate

## Section 13 - Disposal Considerations

<b>Waste chemicals</b>	Before disposal, should refer to the relevant national and local laws and regulations. Recommend the use of incineration disposal.
<b>Contaminated packaging</b>	Containers may still present chemical hazards when empty. Keep away from hot and ignition source of fire.
<b>Disposal recommendations</b>	Refer to section waste chemicals and contaminated packaging.

## Section 14 - Transport Information

<b>Transporting Label</b>	Not applicable
<b>IMDG-CODE</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
<b>ICAO/IATA-DGR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
<b>UN-ADR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
<b>Methods of packing</b>	Packaging as recommended by manufacturer.
<b>Precautions for transport</b>	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

## Section 15 - Regulatory Information

### International Chemical Inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
Sorbitan monolaurate, ethoxylated	√	√	√	√	√	√	√	√	√
reaction mass of 5-chloro-2-methyl-4-isothiazol in-3-one and 2-methyl-2H -isothiazol-3-one	x	x	√	√	√	√	√	x	√

【EC inventory】 European Inventory of Existing Commercial Chemical Substances

【TSCA】 United States Toxic Substances Control Act Inventory

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances

【NZIoC】 New Zealand Inventory of Chemicals

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances

- 【KECI】** Korea Existing Chemicals Inventory  
**【AIIC】** Australia. Inventory of Industrial Chemicals (AIIC)  
**【ENCS】** Japan Inventory of Existing & New Chemical Substances

Note:

“√” Indicates that the substance included in the regulations

“x” That no data or included in the regulations

## Section 16 - Other Information

**Creation date** 12/10/2020

**Revision date** 01/19/2024

### **Key to abbreviations**

BCF - Bioconcentration Factor

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

LogPow - logarithm of the octanol/water partition coefficient

UN = United Nations

### **For Research Use Only. Not for use in diagnostic procedures.**

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**End of SDS**