

Section 1 - Identification

Product Name NHS-Activated MagPoly Beads
Cat. No. MAGP009, MAGP010, MAGP011, MAGP012
Product Type Liquid
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Section 2 - Hazards Identification

GHS-Classification

Classification of the Substance of mixture FLAMMABLE LIQUIDS - Category 2
Serious eye damage/eye irritation - Category 2A
Specific target organ toxicity (single exposure) - Category 3

Signal Word Warning

Hazard Pictograms



Hazard Statements H225 - Highly flammable liquid and vapor.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.

Precautionary Statements

Prevention P210 - Keep away from heat, hot surface, sparks, open flames and other ignition sources. -
No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, ventilating, lighting, and all material-handling
equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing mist, vapors, spray.
P264 - Wash exposed skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response P303+P361+P353 - IF ON SKIN (or hair): Take off Immediately all contaminated clothing.
Rinse SKIN with water [or shower].
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305-P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.

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P319 - Call a POISON CENTER or doctor/physician if you feel unwell.
 P337+P317 - If eye irritation persists: Get medical advice/attention.
 P370+P378 - In case of fire: Use water spray, dry chemical powder or carbon dioxide to extinguish.

Storage

P403+P235 - Store in a well-ventilated place. Keep cool.
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
 P405 - Store locked up.

Disposal

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

Physical hazards

Flammable liquid and vapor

Healthy hazards

Causes severe eye irritation. May cause drowsiness or vertigo.

Environmental

Not Hazardous

Hazards

Other Hazards

Not Applicable

For additional information on toxicity, please refer to Section 11.

Section 3 - Composition / Information on Ingredients

| Substance/Mixture | Mixture | |
|-------------------|---------|----------|
| Component | CAS No. | Weight % |
| Isopropyl alcohol | 67-63-0 | 100 |

We recommend handling all chemicals with caution.

Section 4 - First Aid Measures

Skin Contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Eye Contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Check for and remove any contact lenses. Continue to wash for at least 10 minutes. Get medical attention.

Inhalation

Move the victim to fresh air and keep at rest in a comfortable position for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous for the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. Call a physician.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

| | |
|---------------------|---|
| Skin Contact | No known significant effects or critical hazards. |
| Eye Contact | Causes serious eye irritation. |
| Inhalation | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | |
|---------------------|---|
| Skin Contact | Adverse symptoms may include the following: pain or irritation, watering, redness |
| Eye Contact | No specific data. |
| Inhalation | No specific data. |
| Ingestion | No specific data. |

Notes to Physician

Treat symptomatically.

Section 5 - Fire Fighting Measures

| | |
|--|--|
| Suitable Extinguishing Media | Water spray. Carbon dioxide. Foam. Dry chemical. |
| Unsuitable Extinguishing Media | Never use water for extinction. |
| Specific Hazards arising from the chemical | Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. |
| Hazardous thermal decomposition products | Carbon dioxide, carbon monoxide. |
| Special protective actions for firefighters | Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for firefighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode. |

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

| | |
|------------------------------------|---|
| For non-emergency personnel | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard areas. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

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| | |
|----------------------------------|--|
| Environmental precautions | <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</p> <p>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> |
| Methods for Cleaning Up | <p>Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion proof equipment.</p> <p>For small spill. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.</p> <p>For large spill. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 13 for waste disposal.</p> |

Section 7 - Handling and Storage

| | |
|-----------------|--|
| Handling | <p>Avoid Inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Always wear recommended Personal Protective Equipment. Keep in the original container or an approved alternative made from compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges.</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Empty containers retain product residue and can be hazardous. Do not reuse container.</p> |
| Storage | <p>Store at -20°C, do not freeze. Keep container tightly closed and sealed until ready for use. Keep in a dry, cool and well-ventilated place.</p> |

Section 8 - Exposure Controls/Personal Protection Equipment

| | |
|--|---|
| Exposure Limits | <p>No exposure limit value known.</p> |
| Engineering measures | <p>Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.</p> |
| Environmental exposure controls | <p>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.</p> |
| Personal Protective Equipment | <p>Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.</p> |

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|---------------------------------|--|
| Respiratory protection | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Hand protection | Wear compatible Chemical-resistant, impervious gloves. |
| Eye protection | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mist, gases or dust. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. |
| Skin and Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. |
| General Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. |

Section 9 - Physical and Chemical Properties

| | |
|---------------------------------|---|
| Appearance | Liquid |
| Color | Black or brown |
| Odor | Alcohol-like. |
| pH | No data available |
| BP/BP Range | No data available |
| MP/MP Range | No data available |
| Vapor Density | No data available |
| Odor Threshold | 40 to 200 ppm |
| Evaporation Rate | No data available |
| Viscosity | No data available |
| Partition Coefficient | No data available |
| Flash Point | Closed cup: 12°C |
| Upper Explosion Limits | 12.7% |
| Lower Explosion Limits | 2% |
| Flammability | Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Autoignition Temperature | 399°C |
| Oxidizing properties | No data available |
| Water solubility | No data available |

Section 10 - Stability and Reactivity

| | |
|---|---|
| Reactivity | None known. |
| Stability | Stable under normal conditions. |
| Materials to avoid | oxidizing materials |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |

Hazardous decomposition products None under normal use conditions.

Conditions to avoid Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | LD50(oral, rat) | LD50(dermal,rabbit) |
|-------------------------|-----------------|---------------------|
| Ethanol 67-63-0 | 5,000 mg/kg | 12,800 mg/kg |

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Category 3.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

Routes of entry anticipated: oral, dermal, inhalation.

Potential Acute Health effects

Eyes No known significant effects or critical hazards.

Skin No known significant effects or critical hazards.

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eyes No specific data.

Skin No specific data.

Inhalation No specific data.

Ingestion No specific data.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.



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Long term exposure**Potential immediate effects** Not available.**Potential delayed effects** Not available.**Potential chronic health effects**

Not Available.

General No known significant effects or critical hazards.**Carcinogenicity** No known significant effects or critical hazards.**Mutagenicity** No known significant effects or critical hazards.**Teratogenicity** No known significant effects or critical hazards.**Developmental effects** No known significant effects or critical hazards.**Fertility effects** No known significant effects or critical hazards.**Numerical measures of toxicity****Acute toxicity estimates**

| Product/ingredient name | Oral(mg/kg) | Dermal(mg/kg) | Inhalation(gases) (ppm) | Inhalation (Vapors)(mg /L) | Inhalation (dusts and mists) (mg/L) |
|-------------------------|-------------|---------------|-------------------------|----------------------------|-------------------------------------|
| Ethanol 67-63-5 | 5,000 | 12,800 | N/A | N/A | N/A |

Section 12 - Ecological Information

Ecotoxicity

| Product/ingredient name | Fish | Crustaceans | Daphnia |
|-------------------------|---|---|--|
| Ethanol 67-63-0 | LC50(Rasbora heteromorpha) Fresh water: 4,200 mg/L Exposure time: 96h. | LC50 (Crangon crangon) Marine Water: 1,400,000 g/L Exposure time: 48h. | EC50 (Daphnia magna) Fresh water: 10,100 mg/L Exposure time: 48h; |

Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|--------------|------------------|
| Ethanol 67-63-0 | - | 95%; 21 days | - |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-----|-----------|
| Ethanol 67-63-0 | 0.05 | 0.5 | Low |

Mobility in soil**Soil/water partition coefficient**

Not available.

Other adverse effects

No known significant effects or critical hazards.





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Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation Empty containers or liners may retain some product residues. This material and its container must be disposed of according to approved disposal technique.
Contact a licensed professional waste disposal service to dispose of this product, its solutions or any by-products. Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

| | ADR/RID | ADN | IMDG | IATA |
|-----------------------------------|---|---|--|---|
| UN number | UN1219 | UN1219 | UN1219 | UN1219 |
| UN proper shipping name | ISOPROPANOL | ISOPROPANOL | ISOPROPANOL | ISOPROPANOL |
| Transport hazard class(es) | 3  | 3  | 3  | 3  |
| Packing group | II | II | II | II |
| Environmental hazards | None | None | None | None |
| Additional information | - | - | - | - |

Section 15 - Regulatory Information

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air

Not listed

Industrial emissions (integrated pollution prevention and control) - Water

Not listed

Ozone depleting substances (1005/2009/EU)

Not listed

Prior Informed Consent (PIC) (649/2012/EU)

Not listed

Persistent Organic Pollutants

Not listed

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Danger criteria

Category

P5c

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|-------------------------|--|
| United States | All components are listed or exempted. |
| Europe | All components are listed or exempted. |
| Canada inventory | All components are listed or exempted. |
| China | All components are listed or exempted. |
| Japan inventory | All components are listed or exempted. |

(CSCL):

Section 16 - Other Information

Creation date 12/08/2020

Revision date 01/26/2024

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

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