

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** BIONIX ISO2A  
**Company Name:** Isomeric Industries Inc.  
3400 Research Forest Drive, Suite B4  
The Woodlands, TX 77381  
**Phone Number:** (833)476-6374 EXT 101

**Web site address:** www.isomericindustries.com  
**Email address:** info@isomericindustries.com  
**Emergency Contact:** INFOTRAC United States & Canada (800)535-5053

**Product Category:** Biocide

**Hazard Rating System:**

|              |   |
|--------------|---|
| HEALTH       | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL     | 0 |
| PPE          | D |

HMIS:

Flammability 0, Instability 0, Health 3, Special Hazard 0

NFPA:

## 2. HAZARDS IDENTIFICATION

Skin Sensitization, Category 1  
Skin Corrosion/Irritation, Category 1A  
Serious Eye Damage/Eye Irritation, Category 1



**GHS Signal Word:** Danger

**GHS Hazard Phrases:**  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.

**GHS Precaution Phrases:**  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P272: Contaminated work clothing should not be allowed out of the workplace.  
P280: Wear protective gloves/clothing and eye/face protection as specified by the manufacturer/supplier or the competent authority.

**GHS Response Phrases:**  
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P321: Specific treatment (see ... on this label) ... reference to supplemental first aid instruction - if immediate administration of antidote is required.  
P333+313: If skin irritation or rash occurs, seek medical advice/attention.  
P363: Wash contaminated clothing before reuse.

## GHS Storage and Disposal

### Phrases:

P405: Store locked up.

P501: Dispose of contents/container to ... (in accordance with local/regional/national/international regulation).

## Potential Health Effects

### (Acute and Chronic):

Contact causes severe burns to skin and eyes. Harmful if swallowed. May be harmful if inhaled.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS #      | Hazardous Components (Chemical Name)   | Concentration |  |
|------------|--|---------------|--|
| 10377-60-3 | Magnesium nitrate                      | 1.42 -2.0 %   |  |
| 26172-55-4 | 5-Chloro-2-methyl-4-isothiazolin-3-one | 1.1 -1.2 %    |  |
| 2682-20-4  | 2-Methyl-4-isothiazolin-3-one          | 0.39 %        |  |

## 4. FIRST AID MEASURES

### Emergency and First Aid

#### Procedures:

#### In Case of Inhalation:

Remove victim to fresh air and keep at rest position comfortable for breathing

#### In Case of Skin Contact:

Wash with plenty of soap and water for 15 minutes or more. Remove/take off immediately all contaminated clothing. Contaminated clothing must be washed before re-use.

#### In Case of Eye Contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

#### In Case of Ingestion:

Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Give 1-2 glasses of water.

## 5. FIRE FIGHTING MEASURES

### Flash Pt:

>= 200.00 F (93.3 C) Method Used: ASTM D Closed Cup

### Explosive Limits:

LEL: na UEL: na

### Autoignition Pt:

NA

### Suitable Extinguishing Media:

IN CASE OF FIRE: Choose extinguishing media suitable for the surrounding fire. Fight fire with normal precautions from a reasonable distance. Water spray jet, extinguishing powder, CO2 and foam

### Unsuitable Extinguishing

None

### Media:

### Fire Fighting Instructions:

Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Wear self-contained breathing apparatus for fire-fighting and full protective equipment.

## Flammable Properties and

### Hazards:

### Hazardous Combustion

### Products:

## 6. ACCIDENTAL RELEASE MEASURES

**Protective Precautions,  
Protective Equipment and  
Emergency Procedures:**

Use personal protective equipment. Evacuate personnel to safe areas.

**Environmental Precautions:**

Avoid release to the environment. Contain liquid to prevent contamination of soil, surface water or ground water.

**Steps To Be Taken In Case  
Material Is Released Or  
Spilled:**

Collect and contain spillage. Absorb spills with inert material. Continue to keep spilled material damp. Pick up and arrange for disposal. Keep in suitable, closed containers for disposal. Dike to collect large liquid spills.

## 7. HANDLING AND STORAGE

**Precautions To Be Taken in  
Handling:**

Follow all SDS/Label precautions. Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Ensure good ventilation at the workplace.

**Precautions To Be Taken in  
Storing:**

Keep container tightly closed in a dry and well-ventilated place. Do not store near combustible materials. Avoid extreme temperatures. Do not expose to direct sunlight or ultraviolet light. Avoid strong oxidizing agents, mild steel, aluminum, copper and other materials.

**Other Precautions:**

None

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| CAS #      | Partial Chemical Name                  | OSHA TWA | ACGIH TWA | Other Limits |
|------------|--|----------|-----------|--------------|
| 10377-60-3 | Magnesium nitrate                      |          |           |              |
| 26172-55-4 | 5-Chloro-2-methyl-4-isothiazolin-3-one |          |           |              |
| 2682-20-4  | 2-Methyl-4-isothiazolin-3-one          |          |           |              |

**Personal Protective  
Equipment Symbols:**



**Respiratory Equipment  
(Specify Type):**

Ensure adequate ventilation. When there is a potential for airborne exposure in excess of applicable limits, wear a NIOSH/MSHA approved respiratory protection.

**Eye Protection:**

Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

**Protective Gloves:**

Wear appropriate protective gloves to prevent skin exposure.

**Other Protective Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Engineering Controls  
(Ventilation etc.):**

Use adequate ventilation to keep airborne concentrations low.

**Work/Hygienic/Maintenance  
Practices:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. An eye wash station should be accessible in the immediate area of use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical States:** ☐ Gas ☒ Liquid ☐ Solid

**Appearance and Odor:** Colorless to pale yellow. Mild odor.

**pH:** 2.0-4.0

**Melting Point:** NA

**Boiling Point:** ~ 212.00 F (100.0 C)

**Flash Pt:** >= 200.00 F (93.3 C) Method Used: ASTM D Closed Cup

**Evaporation Rate:**

**Flammability (solid, gas):**

**Explosive Limits:** LEL: na UEL: na

**Vapor Pressure (vs. Air or mm Hg):** 23 MBAR

**Vapor Density (vs. Air = 1):** NA

**Specific Gravity (Water = 1):** 1.015-1.035 at 68.0 F (20.0 C)

**Solubility in Water:** Soluble

**Octanol/Water Partition Coefficient:**

**Autoignition Pt:** NA

**Decomposition Temperature:** NA

**Viscosity:**

## 10. STABILITY AND REACTIVITY

**Stability:** Unstable ☐ Stable ☒

**Conditions To Avoid - Instability:** Protect from long-term storage below -5C

**Incompatibility - Materials To Avoid:** Strong oxidizing agents Strong reducing agents, Amines, oxides of nitrogen, oxides of sulfur, Carbon oxides, Hydrogen chloride,

**Hazardous Decomposition or Byproducts:**

**Possibility of Hazardous Reactions:** Will occur ☐ Will not occur ☒

**Conditions To Avoid - Hazardous Reactions:**

## 11. TOXICOLOGICAL INFORMATION

|   |   |
|---|---|
| <b>Toxicological Information:</b>                         | No data available.  |
| <b>Irritation or Corrosion:</b>                           | No data available.  |
| <b>Symptoms related to Toxicological Characteristics:</b> | No data available.  |
| <b>Sensitization:</b>                                     | Skin sensitization by skin contact if prolonged or repeated exposure. |
| <b>Chronic Toxicological Effects:</b>                     | No data available.  |
| <b>Carcinogenicity/Other Information:</b>                 | CAS# 7631-99-4. Acute toxicity, LD50, Oral, Rat, 1267 mg/kg           |
| <b>Carcinogenicity:</b>                                   | NTP? No      IARC Monographs? No      OSHA Regulated? Yes             |

## 12. ECOLOGICAL INFORMATION

|  |   |
|--|---|
| <b>General Ecological Information:</b>     | Do not discharge effluent into lakes, streams, estuaries, oceans or any other waters in accordance with the requirement of NDPES permit. This product is extremely toxic to fish and other aquatic organisms. |
| <b>Results of PBT and vPvB assessment:</b> | No data available.  |
| <b>Persistence and Degradability:</b>      | No data available.  |
| <b>Bioaccumulative Potential:</b>          | No data available.  |
| <b>Mobility in Soil:</b>                   | No data available.  |

## 13. DISPOSAL CONSIDERATIONS

|                               |  |
|-------------------------------|--|
| <b>Waste Disposal Method:</b> | Dispose in accordance with local, state, and federal regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. |
|-------------------------------|--|

## 14. TRANSPORT INFORMATION

### LAND TRANSPORT (US DOT):

|                                  |   |
|----------------------------------|---|
| <b>DOT Proper Shipping Name:</b> | Corrosive Liquid, Acidic, Organic n.o.s. (5-Chloro-2-methyl-4-isothiazolin-3-one) |
| <b>DOT Hazard Class:</b>         | 8      CORROSIVE  |
| <b>UN/NA Number:</b>             | 3265 <b>Packing Group:</b> II   |



### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Corrosive Liquid, Acidic, Organic n.o.s. (5-Chloro-2-methyl-4-isothiazolin-3-one)

### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Corrosive Liquid, Acidic, Organic n.o.s. (5-Chloro-2-methyl-4-isothiazolin-3-one)

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

| CAS #      | Hazardous Components (Chemical Name)   | S. 302 (EHS) | S. 304 RQ | S. 313 (TRI) |
|------------|--|--------------|-----------|--------------|
| 10377-60-3 | Magnesium nitrate                      | No           | No        | No           |
| 26172-55-4 | 5-Chloro-2-methyl-4-isothiazolin-3-one | No           | No        | No           |
| 2682-20-4  | 2-Methyl-4-isothiazolin-3-one          | No           | No        | No           |

| CAS #      | Hazardous Components (Chemical Name)   | Other US EPA or State Lists   |
|------------|--|---|
| 10377-60-3 | Magnesium nitrate                      | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; FIFRA: Yes - Inert: F/NF; FDA/DEA CSA: No; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; PA HSL: Yes - 1                        |
| 26172-55-4 | 5-Chloro-2-methyl-4-isothiazolin-3-one | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 12(b); FIFRA: Yes - Active - 107103: Am, Inert: F/NF; FDA/DEA CSA: No; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; PA HSL: No |
| 2682-20-4  | 2-Methyl-4-isothiazolin-3-one          | CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 12(b); FIFRA: Yes - Active - 107104: Am, Inert: F/NF; FDA/DEA CSA: No; CA PROP.65: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NJ EHS: No; PA HSL: No |

| CAS #      | Hazardous Components (Chemical Name)   | International Regulatory Lists       |
|------------|--|--------------------------------------|
| 10377-60-3 | Magnesium nitrate                      | Canadian DSL: Yes; Canadian NDSL: No |
| 26172-55-4 | 5-Chloro-2-methyl-4-isothiazolin-3-one | Canadian DSL: Yes; Canadian NDSL: No |
| 2682-20-4  | 2-Methyl-4-isothiazolin-3-one          | Canadian DSL: Yes; Canadian NDSL: No |

## 16. OTHER INFORMATION

Revision Date: 03/23/2017

### Additional Information About

#### This Product:

#### Company Policy or

#### Disclaimer:

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