

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **BIONIX BIT20W**

Company Name: Isomeric Industries Inc.
3400 Research Forest Drive, Suite B4
The Woodlands, TX 77381

Phone Number: (678)713-4275

Web site address: www.isomericindustries.com

Email address: info@isomericindustries.com

Emergency Contact: INFOTRAC United States & Canada (800)535-5053

Hazard Rating System:

HEALTH		2
FLAMMABILITY		0
PHYSICAL		0
PPE		D

HMIS:

NFPA:

Flammability	0	Instability
Health	2	
Special Hazard		

2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4
Serious Eye Damage/Eye Irritation, Category 1
Skin Corrosion/Irritation, Category 2
Skin Sensitization, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases:

H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

GHS Precaution Phrases:

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
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+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+352 - IF ON SKIN: Wash with plenty of soap and water.
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.
P330 - Rinse mouth.
P332+313 - If skin irritation occurs, get medical advice/attention.
P333+313 - If skin irritation or rash occurs, seek medical advice/attention.

P362 - Take off contaminated clothing and wash before re-use.

P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:

P501 - Dispose of contents/container in an approved disposal facility.

Potential Health Effects (Acute and Chronic):

Contact may cause burns to skin and eyes. Causes respiratory tract irritation. Causes severe eye damage. Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration	
2634-33-5	1,2-Benzisothiazol-3(2H)-one	19.0 -21.0 %	
7732-18-5	Water	Balance	

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

In Case of Inhalation:

Remove person to fresh air and keep comfortable for breathing.

In Case of Skin Contact:

Wash off with soap and plenty of water. Consult a physician. Take off contaminated clothing and shoes immediately.

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:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed:

No data available.

Note to Physician:

Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt:

NP 0.00 C (32.0 F) Method Used: Estimate

Explosive Limits:

LEL: UEL:

Autoignition Pt:

NP

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.

Fire Fighting Instructions:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn. Wear self contained breathing apparatus for fire fighting if necessary.

Flammable Properties and Hazards:

Hazardous Combustion Products:

nitrogen oxides. oxides of sulfur, Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear respiratory protection.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

**Precautions To Be Taken in
Handling:**

Avoid contact with eyes, skin, and clothing.

**Precautions To Be Taken in
Storing:**

Keep container tightly closed in a dry and well-ventilated place.
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:

Keep away from sources of ignition - No smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
2634-33-5	1,2-Benzisothiazol-3(2H)-one			
7732-18-5	Water			

**Personal Protective
Equipment Symbols:**



**Respiratory Equipment
(Specify Type):**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye Protection:

Eye wash station in work area. Face shield and safety glasses.

Protective Gloves:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact.
Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 min.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

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

There are no special ventilation requirements. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Environmental Exposure
Controls:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: ☐ Gas ☒ Liquid ☐ Solid
Appearance and Odor: Opaque.
No apparent odor.
pH: 6.0 - 8.0
Melting Point: - 0.00 C (32.0 F)
Boiling Point: > 100.00 C (212.0 F)
Flash Pt: NP 0.00 C (32.0 F) Method Used: Estimate
Evaporation Rate:
Flammability (solid, gas):
Explosive Limits: LEL: UEL:
Vapor Pressure (vs. Air or mm Hg):
Vapor Density (vs. Air = 1):
Specific Gravity (Water = 1): NA1.07 at 20.0 C (68.0 F)
Solubility in Water:
Octanol/Water Partition Coefficient:
Percent Volatile: 80.0 % by volume.
Autoignition Pt: NP
Decomposition Temperature:
Viscosity: 700 - 1500 CPS at 20.0 C (68.0 F)

10. STABILITY AND REACTIVITY

Reactivity: No data available.
Stability: Unstable ☐ Stable ☒
Conditions To Avoid - Instability: Protect from long-term storage below -5C.
Incompatibility - Materials To Avoid: Strong reducing agents, Metals, Strong oxidizing agents.
Hazardous Decomposition or Byproducts: Hazardous decomposition products formed under fire conditions. oxides of sulfur, Carbon oxides.
Possibility of Hazardous Reactions: Will occur ☐ Will not occur ☒
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	<p>Epidemiology: No data available. Teratogenicity: No data available. Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies: Acute toxicity.</p> <p>Dermal. Germ cell mutagenicity: Reproductive toxicity. Aspiration hazard: CAS# 2634-33-5: 1,2-Benzisothiazol-3(2H)-one: Acute toxicity, LD50, Oral, Rat, 1020. MG/KG; Pharmacological Research Communications., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 3,385, 1971 Acute toxicity, LD50, Oral, Mouse, 1150. MG/KG; Pharmacological Research Communications., Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 3,385, 1971</p>
Irritation or Corrosion:	<p>Skin sensitization. Skin corrosion/irritation. No data available. Serious eye damage/eye irritation: no data available. Result: Tumorigenic: Tumors at site or application. Severe eye irritation -24. Eyes: Rabbit. Corrosive to eyes .</p>
Sensitization:	No data available.
Chronic Toxicological Effects:	<p>Specific target organ toxicity - single exposure: No data available. Specific target organ toxicity -repeated exposure: no data available. Specific target organ toxicity -single exposure (Globally Harmonized System)</p>
Carcinogenicity/Other Information:	<p>CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	<p>This product is extremely toxic to fish and other aquatic organisms. CAS# 2634-33-5: 1,2-Benzisothiazol-3(2H)-one: LC50, Sheepshead Minnow (Cyprinodon variegatus), 16.00 PPM, 96 H, Mortality; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000</p> <p>LC50, Opossum Shrimp (Americamysis bahia), 1.400 PPM, 96 H, Mortality; Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)), Office of Pesticide Programs, 2000</p> <p>LC50, Bleak (Alburnus alburnus), 10000. UG/L, 96 H, Mortality, Water temperature: 10.00 C (50.0 F) C, pH: 7.80; The Acute Toxicity of 78 Chemicals and Pesticide Formulations Against Two Brackish Water Organisms, the Bleak (Alburnus alburnus) and the Harpacticoid Nitocra spinipes, Linden, E., B.E. Bengtsson, O. Svanberg, and G. Sundstrom, 1979</p> <p>LC50, Harpacticoid Copepod (Nitocra spinipes), adult(s), 25000. UG/L, 96 H, Mortality, Water temperature: 21.00 C (69.8 F) C, pH: 7.80; The Acute Toxicity of 78 Chemicals</p>
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and Pesticide Formulations Against Two Brackish Water Organisms, the Bleak (*Alburnus alburnus*) and the Harpacticoid *Nitocra spinipes*, Linden, E., B.E. Bengtsson, O. Svanberg, and G. Sundstrom, 1979

LC50, Water Flea (*Ceriodaphnia dubia*), 10.00 - 20.00 MG/L, 48 H, Mortality, Water temperature: 25.60 C (78.1 F) - 26.80 C (80.2 F) C, pH: 8.50, Hardness: 104.00 MG/L; The Response of the Three Brood *Ceriodaphnia* Test to Fifteen Formulations and Pure Compounds in Common Use, Cowgill, U.M., and D.P. Milazzo, 1991
LC50, Water Flea (*Ceriodaphnia dubia*), 10.00 - 20.00 MG/L, Mortality, Water temperature: 25.60 C (78.1 F) - 26.80 C (80.2 F) C, pH: 8.50, Hardness: 104.00 MG/L; The Response of the Three Brood *Ceriodaphnia* Test to Fifteen Formulations and Pure Compounds in Common Use, Cowgill, U.M., and D.P. Milazzo, 1991

Results of PBT and vPvB assessment:

No information available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed. Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

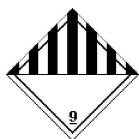
LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Environmentally hazardous substance, n.o.s. (1,2-Benzisothiazolin-3-one)

DOT Hazard Class: 9 CLASS 9

UN/NA Number: 3082

Packing Group: III



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Environmentally hazardous substance, n.o.s. (1,2-Benzisothiazolin-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)
2634-33-5	1,2-Benzisothiazol-3(2H)-one	No	No	No
7732-18-5	Water	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
2634-33-5	1,2-Benzisothiazol-3(2H)-one	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; FIFRA: Yes - Active - 098901: 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
7732-18-5	Water	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; FIFRA: Yes - Inert: F/NF/Fr; 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
2634-33-5	1,2-Benzisothiazol-3(2H)-one	Canadian DSL: Yes; Canadian NDSL: No
7732-18-5	Water	Canadian DSL: Yes; Canadian NDSL: No

16. OTHER INFORMATION

Revision Date: 04/12/2017

Additional Information About

This Product:

Company Policy or

Disclaimer:

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