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#### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	BIONIX ISO14
Company Name:	Isomeric Industries Inc.
	3400 Research Forest Drive, Suite B4
	The Woodlands, TX 77381
Web site address:	www.isomericindustries.com
Email address:	info@isomericindustries.com
Emergency Contact: Information:	INFOTRAC United States & Canada ISOMERIC Main

ID: 104065 (800)535-5053

(833)476-6374 101

Phone Number: (833)476-6374

#### 2. HAZARDS IDENTIFICATION

Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 4 Acute Toxicity: Inhalation, Category 4 Skin Corrosion/Irritation, Category 1B Serious Eye Damage/Eye Irritation, Category 1 Skin Sensitization, Category 1 Aquatic Toxicity (Acute), Category 2 Aquatic Toxicity (Chronic), Category 2



GHS Signal Word:	Danger			
GHS Hazard Phrases:	H302 - Harmful if swallowed.			
	H312 - Harmful in contact with skin.			
	H314 - Causes severe skin burns and eye damage.			
	H317 - May cause an allergic skin reaction.			
	H318 - Causes serious eye damage.			
	H332 - Harmful if inhaled.			
	H401 - Toxic to aquatic life.			
	H411 - Toxic to aquatic life with long lasting effects.			
<b>GHS Precautionary Phrases:</b>	P260 - Do not breathe dust/fume/gas/mist/vapors/spray.			
-	P264 - Wash hands thoroughly after handling.			
	P270 - Do not eat, drink or smoke when using this product.			
	P271 - Use only outdoors or in a well-ventilated area.			
	P272 - Contaminated work clothing should not be allowed out of the workplace.			
	P273 - Avoid release to the environment.			
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
GHS Response Phrases:	P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.			
	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.			



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	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.
	P330 - Rinse mouth.
	P333+313 - If skin irritation or rash occurs, seek medical advice/attention.
	P362+364 - Take off contaminated clothing and wash it before reuse. P391 - Collect spillage.
GHS Storage and Disposal	P405 - Store locked up.
Phrases:	P501 - Dispose of contents/container to an approved waste disposal plant.

**Medical Conditions Generally** Exposure may aggravate pre-existing eye, skin, or respiratory conditions. **Aggravated By Exposure:** 

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Com	ponents (Chemical Name)	Concentration	
26172-55-4	5-Chloro-2-methyl-4-isothiazolin-3-one		10.0 -12.0 %	
2682-20-4	2-Methyl-4-isothia	azolin-3-one	3.0 -5.0 %	
7786-30-3	Magnesium chlor	ide	5.0 -7.0 %	
10377-60-3	Magnesium nitrat	е	18.0 -22.0 %	
7732-18-5	Water		46.0 -64.0 %	
		4. FIRST AII	<b>MEASURES</b>	\$
Emergency a Procedures:	nd First Aid	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.		
In Case of In	halation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/ attention. Immediately call a poison center or doctor/ physician.		
In Case of Sk	kin Contact:	Immediately remove contaminated clothing. Immediately call a poison center or doctor/physician. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.		
In Case of Ey	ve Contact:	Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. Get immediate medical advice/attention.		
In Case of Ing	gestion:	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.		
Signs and Symptoms Of       Symptoms/Injuries: Skin sensitization. Harmful if swallowed. Harmful in contact with Harmful if inhaled. Causes severe skin burns and eye damage.         Injuries After Inhalation: Inhalation is likely to cause adverse health effects includir not limited to; irritation, difficulty breathing, and unconsciousness. May be corrosiv		if swallowed. Harmful in contact with skin. nd eye damage. ause adverse health effects including but unconsciousness. May be corrosive to		

the respiratory tract. Injuries After Skin Contact: May cause an allergic skin reaction. This material is harmful through skin contact, and can cause adverse health effects or death in significant amounts. This material may be

absorbed through the skin and eyes. Causes severe irritation which will progress to chemical burns. Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva.

Injuries After Eye Contact: Causes permanent damage to the cornea, iris, or conjunctiva. Injuries After Ingestion: This material is harmful orally and can cause adverse health



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effects or death in significant amounts. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

Indication of any immediate If exposed or concerned, get medical advice and attention. If medical advice is needed, medical attention and special have product container or label at hand. treatment needed:

5. FIRE FIGHTING MEASURES				
Flash Pt:				
Explosive Limits:	LEL: UEL:			
Autoignition Pt:				
Suitable Extinguishing Media	Water spray, fog, carbon dioxide (CO2), alcohol-resistant foam, or dry chemical.			
Unsuitable Extinguishing Media:	Do not use a heavy water stream. Use of heavy stream of water may spread fire.			
Fire Fighting Instructions:	<ul><li>Precautionary Measures Fire: Exercise caution when fighting any chemical fire.</li><li>Firefighting Instructions: Use water spray or fog for cooling exposed containers.</li><li>Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.</li><li>Other Information: Do not allow run-off from fire fighting to enter drains or water courses.</li></ul>			
Flammable Properties and Hazards:	Fire Hazard: Not considered flammable but may burn at high temperatures. Explosion Hazard: Product is not explosive. Reactivity: May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.			
Hazardous Combustion Products:	Hazardous Combustion Products: Carbon oxides (CO, CO2). Compounds of nitrogen, hydrogen, and chlorine.			
	6. ACCIDENTAL RELEASE MEASURES			
Protective Precautions, Protective Equipment and Emergency Procedures:	General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.			
	For Non-Emergency Personnel: -Protective Equipment: Use appropriate personal protective equipment (PPE). -Emergency Procedures: Evacuate unnecessary personnel.			
	For Emergency Personnel: -Protective Equipment: Equip cleanup crew with proper protection. -Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.			
Environmental Precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.			
Steps To Be Taken In Case Material Is Released Or Spilled:	For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely.			



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Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Cautiously neutralize spilled liquid.

	7. HANDLING AND STORAGE
Precautions To Be Taken in Handling:	Precautions for Safe Handling: Do not breathe mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing. Use only outdoors or in a well-ventilated area. Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.
Precautions To Be Taken in Storing:	Technical Measures: Comply with applicable regulations. Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area. Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Other Precautions:	May release corrosive vapors.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION				
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
26172-55-4	5-Chloro-2-methyl-4-isothiazolin-3-one			
2682-20-4	2-Methyl-4-isothiazolin-3-one			
7786-30-3	Magnesium chloride			
10377-60-3	Magnesium nitrate			
7732-18-5	Water			

#### Personal Protective Equipment Symbols:

Respiratory Equipment (Specify Type):	If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.			
Eye Protection:	Chemical safety goggles and face shield.			
Protective Gloves:	Chemical resistant protective gloves.			
Other Protective Clothing:	Wear protective clothing appropriate to the risk of exposure.			
Engineering Controls	Control Parameters:			
(Ventilation etc.):	For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL). Exposure Controls			
	Appropriate Engineering Controls:			



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Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

 Work/Hygienic/Maintenance
 Personal Protective Equipment:

 Practices:
 Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.

Other Information: When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical States:	[]Gas [X]Liquid []Solid		
Appearance and Odor:	Appearance: Clear. yellow. Odor: Mild.		
pH:			
Melting Point:	-33.00 C (-27.4 F)		
Boiling Point:	100.00 C (212.0 F)		
Flash Pt:			
Evaporation Rate:	< 1		
Flammability (solid, gas):			
Explosive Limits:	LEL: UEL:		
Vapor Pressure (vs. Air or mm Hg):			
Vapor Density (vs. Air = 1):	0.62		
Specific Gravity (Water = 1):			
Density:	1.27 - 1.33 G/ML		
Solubility in Water:	soluble		
<b>Octanol/Water Partition</b>	0.401		
Coefficient:			
Autoignition Pt:			
Decomposition Temperature:			
Viscosity:	16 cP		
	10. STABILITY AND REACTIVITY		
Reactivity:	May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.		
Stability:	Unstable [ ] Stable [ X ]		
Conditions To Avoid -	Stable under recommended handling and storage conditions (see section 7).		
Instability:	Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and		
	incompatible materials.		
Incompatibility - Materials To Avoid:	Strong acids, strong bases, strong oxidizers.		
Hazardous Decomposition or Byproducts:	Thermal decomposition generates: Corrosive vapors.		
Possibility of Hazardous	Will occur [ ] Will not occur [ X ]		



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Reactions:					
Conditions To Avoid - Hazardous Reactions:	Hazardous po	zardous polymerization does not occur.			
	11. TOXI	COLOGICAL INFC	RMATION		
Toxicological Information:	Acute Toxicity: Not classified BIONIX ISO14 ATE (Oral): 727.27 mg/kg body weight ATE (Dermal): 1,857.59 mg/kg body weight ATE (Dust/Mist): 2.41 mg/l/4h				
	3(2H)-Isothiaz LD50 Oral Rat LD50 Dermal LC50 Inhalatic	colone, 2-methyl- (2682-20- t: 120 mg/kg Rabbit: 200 mg/kg on Rat: 0.11 mg/l/4h	4)		
	3(2H)-Isothiaz LD50 Oral Rat LC50 Inhalatic ATE (Oral): 10 ATE (Dermal):	colone, 5-chloro-2-methyl- ( t: 481 mg/kg on Rat: 1.23 mg/l/4h 00.00 mg/kg body weight : 300.00 mg/kg body weigh	26172-55-4) t.		
	Germ Cell Mu Carcinogenicit Reproductive Specific Targe Specific Targe Aspiration Haz	tagenicity: Not classified ty: Not classified Toxicity: Not classified et Organ Toxicity (Single Es et Organ Toxicity (Repeated zard: Not classified.	(posure): Not classified d Exposure): Not classified		
Irritation or Corrosion:	Skin Corrosior Serious Eye D Respiratory or	n/Irritation: Causes severe Damage/Irritation: Causes s Skin Sensitization: May ca	skin burns and eye damage. pH: 2 - 4 erious eye damage. pH: 2 - 4 ause an allergic skin reaction.		
Symptoms related to Toxicological Characteristics:	Symptoms/Inju including but r corrosive to th Symptoms/Inju is harmful thro significant amo severe irritatio Symptoms/Inju conjunctiva. Symptoms/Inju health effects of the mouth, t	uries After Inhalation: Inhal not limited to: irritation, diffi- e respiratory tract. uries After Skin Contact: M ough skin contact, and can ounts. This material may b in which will progress to ch uries After Eye Contact: Ca uries After Ingestion: This r or death in significant amo throat, and gastrointestinal	ation is likely to cause adverse health effects culty breathing, and unconsciousness. May be ay cause an allergic skin reaction. This material cause adverse health effects or death in e absorbed through the skin and eyes. Causes emical burns. auses permanent damage to the cornea, iris, or material is harmful orally and can cause adverse unts. May cause burns or irritation of the linings tract.		
Chronic Toxicological Effects:	Chronic Symp	toms: None expected unde	er normal conditions of use.		
Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No		



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	12. ECOLOGICAL	. INFORMATION			
General Ecological Information:	Ecology - General: Toxic to ad 3(2H)-Isothiazolone, 5-chloro- LC50 Fish 1: 1.6 mg/l (Expose [semi-static]) EC50 Daphnia 1: 4.71 mg/l (E EC50 Daphnia 2: 0.12 (0.12 - [Flow through])	cology - General: Toxic to aquatic life with long lasting effects. (2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4): C50 Fish 1: 1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss emi-static]) C50 Daphnia 1: 4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna) C50 Daphnia 2: 0.12 (0.12 - 0.3) mg/l (Exposure time: 48 h - Species: Daphnia magna Flow through])			
Persistence and Degradability:	May cause long-term adverse	y cause long-term adverse effects in the environment.			
Bioaccumulative Potential:	BIONIX ISO14 Bioaccumulative Potential: No 3(2H)-Isothiazolone, 5-chloro-	ONIX ISO14 oaccumulative Potential: Not established. 2H)-Isothiazolone, 5-chloro-2-methyl- (26172-55-4) Log Pow: -0.71 - 0.75 (at 20 °C)			
Mobility in Soil:	No additional information avai	lable.			
	13. DISPOSAL CO	NSIDERATIONS			
Waste Disposal Method:	Waste Disposal Recommenda local, regional, national, and in Additional Information: Contai observe all precautions. Ecology - Waste Materials: Av to the aquatic environment. Ke	Vaste Disposal Recommendations: Dispose of contents/container in accordance with ocal, regional, national, and international regulations. Additional Information: Container may remain hazardous when empty. Continue to observe all precautions. Ecology - Waste Materials: Avoid release to the environment. This material is hazardous o the aquatic environment. Keep out of sewers and waterways.			
	14. TRANSPORT	INFORMATION			
LAND TRANSPORT (US DOT	):				
DOT Proper Shipping Na	me: CORROSIVE LIQUID, AC 5-Chloro-2- methyl-3(2H)-	IDIC, ORGANIC, N.O.S. (2-N isothiazolone)	/lethyl-3(2H)-isothiazolone,		
DOT Hazard Class: UN/NA Number:	8 CORROS 3265	SIVE Packing Group:	II		
MARINE TRANSPORT (IMDO	G/IMO):				
MARINE TRANSPORT (IMDO IMDG/IMO Shipping Nam	G/IMO): e: CORROSIVE LIQUID, AC	CIDIC, ORGANIC, N.O.S. (2-1	Methyl-3(2H)-isothiazolone,		
MARINE TRANSPORT (IMDO IMDG/IMO Shipping Nam UN Number: Hazard Class: IMDG EMS Number: IMDG EMS Page:	G/IMO): e: CORROSIVE LIQUID, AC 5-Chloro-2- methyl-3(2H) 3265 8 - CORROSIVE F-A, S-B	CIDIC, ORGANIC, N.O.S. (2-I -isothiazolone) <b>Packing Group:</b> IMDG MFAG Number:	Methyl-3(2H)-isothiazolone, II		



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#### **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)
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
7786-30-3	Magnesium chloride	No	No	No
10377-60-3	Magnesium nitrate	No	No	No
7732-18-5	Water	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA or S	State Lists	
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		
7786-30-3	Magnesium chloride	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; FIFRA: Yes - Active - 013902: Am/CC, 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		
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		
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 Regu	latory Lists	
26172-55-4	5-Chloro-2-methyl-4-isothiazolin-3-one	Canadian DSL: Ye	s; Canadian NDSL: I	No
2682-20-4	2-Methyl-4-isothiazolin-3-one	Canadian DSL: Ye	s; Canadian NDSL: I	No
7786-30-3	Magnesium chloride	Canadian DSL: Ye	s; Canadian NDSL: I	No
10377-60-3	Magnesium nitrate	Canadian DSL: Yes; Canadian NDSL: No		No
7732-18-5	Water	Canadian DSL: Ye	s; Canadian NDSL: I	No



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#### **16. OTHER INFORMATION**

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Additional Information About This Product:	
Company Policy or	Notice to Reader: The information herein is based on data considered accurate.
Disclaimer:	However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. ISOMERIC INDUSTRIES INC. assumes no responsibility for personal or property damage to vendors, users, or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.