

BIONIX® ISO2A

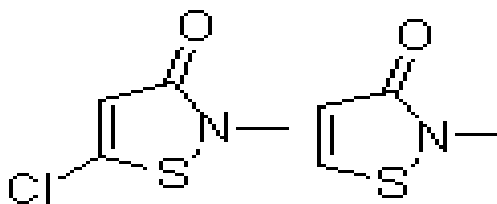
1.5% CMIT/MIT

PRODUCT DATA SHEET

DESCRIPTION

BIONIX ISO2A, 1.5% 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one is a high performance, low cost, broad spectrum, microbiocide for controlling spoilage, odor causing, corrosion inducing, slime-forming bacteria, and fungi, in industrial process and water systems, including paper mills, industrial cooling water systems, controls the growth of microorganisms in preservation applications, and oil field processing applications.

STRUCTURE AND INFORMATION



CAS # CMIT:	226172-55-4
CAS# MIT:	2682-20-4
EINECS CMIT:	247-500-7
EINECS MIT:	220-239-6
Chemical Family:	Isothiazolinones
Molecular Formula CMIT:	C ₅ H ₆ Cl ₂ N ₂ O ₂
Molecular Formula MIT:	C ₄ H ₄ ClNOS
Molecular Weight CMIT:	115.1496
Molecular Weight MIT:	149.5947

BENEFITS

- No VOC
- Effective use range pH 3-8
- Copper free stabilizer
- Aqueous solution readily incorporated into industrial formulations.
- Rapid inhibition of microbial growth and enzyme synthesis
- Formaldehyde free
- Biodegradable/non-persistent in the environment

PHYSICAL PROPERTIES

Appearance	Liquid
Color	Yellow-Green
pH	2.0 - 4.0
Solubility in water	Soluble
Boiling Point	100°C/212°F
Specific Gravity	1.27 - 1.33

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APPLICATION/USES

BIONIX ISO2A can be dosed directly either by open pouring (not approved for cooling water treatment) or by metered pump either intermittently or on a continuous basis. BIONIX ISO2A is best added after any heating stage or when the product has cooled below 40°C. Care should be taken to ensure that the temperature and pH at the point of addition are suitable for the stability of the product.

WATER TREATMENT

- Air washers and industrial /recirculating cooling water towers, industrial recirculating closed loop water cooling systems, ultra filtration units and non-medical/no-potable reverse osmosis systems, brewery pasteurizers and can warmers.

PAPER MILLS

- Paper mill slimicide. Typical addition points are the beaters, hydropulper or fan or broke storage pumps.

GENERAL PRESERVATIVE

- Paints and coating preservation, such as paper and wood coatings and paints used for architectural product finishes and special-purpose coatings, adhesive and tackifier preservation such as animal glues, vegetable glues, natural rubber, latices, polyvinyl acetate, styrene butadiene and acrylic latices, polymer latex preservation, including acrylic, styrene/butadiene, carboxylated styrene/butadiene, ethylene-vinyl acetate, biopolymers, xanthan gum, gum arabic, guar gum, protein-derived polymers, starches, casein derived polymers latices and solutions polymers, photoplate processing, fountain solutions and ink/ink components.

OIL/GAS PRODUCTION

- Oilfield injection waters, enhanced recovery injection fluids, drilling, fracturing and completions fluids.

21 CFR CLEARANCES

21 CFR 175.105	Adhesives
21 CFR 175.300	As an antimicrobial agent in emulsion-based silicon coatings at a level not to exceed 50 mg active ingredient/Kg in the coating formulation
21 CFR 175.320	As an antimicrobial agent in emulsion-based silicon coatings at a level not to exceed 50 mg active ingredient/Kg in the coating formulation
21 CFR 176.170	Cleared for use as antimicrobial agent for finished coatings and for additives used in the manufacture of paper and paperboard including fillers, binders, pigment slurries and sizing solutions not exceeding 25ppm active. Cleared for use as an antimicrobial agent for polymer latex emulsions in paper coatings not exceeding 50ppm active in the coating formulation.
21 CFR 176.180	Cleared for use as antimicrobial agent for finished coatings and for additives used in the manufacture of paper and paperboard including fillers, binders, pigment slurries and sizing solutions not exceeding 25ppm active. Cleared for use as an antimicrobial agent for polymer latex emulsions in paper coatings not exceeding 50ppm active in the coating formulation.

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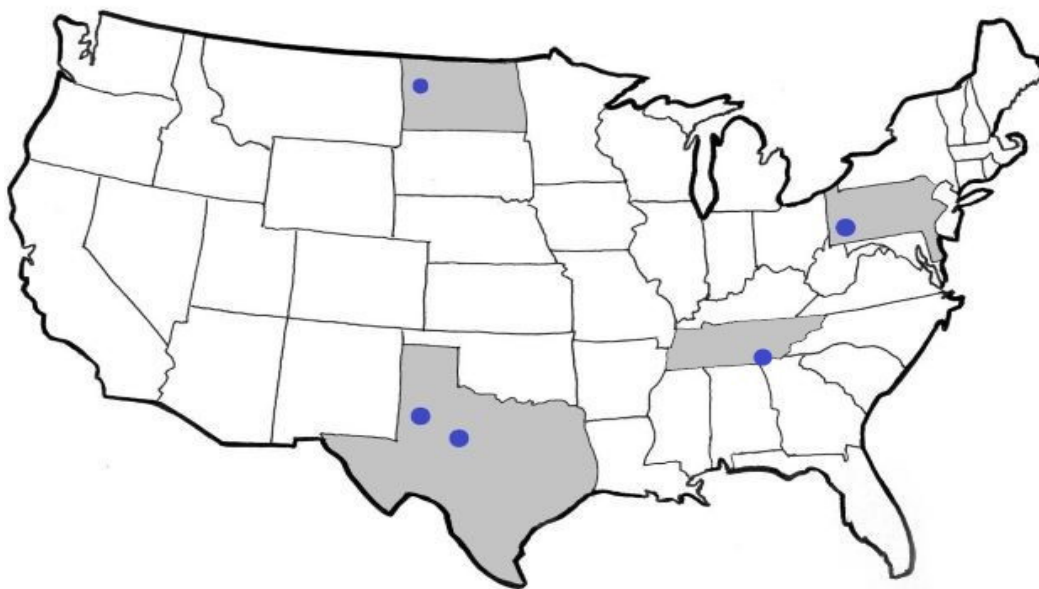
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PACKAGING

TYPE	LBS	KG
55 gal. Drum	460 lbs	208 kg
275 gal. Tote	2,251 lbs	1021 kg

SHIPPING LOCATIONS



Newell, PA
Chattanooga, TN
Ross, ND
Big Spring, TX
Brownwood, TX

SHIPPING INFORMATION

U.S. D.O.T

NON-BULK

Proper Shipping Name	Corrosive Liquid, Acidic, Organic n.o.s. (5-Chloro-2- methl-4-isothiazolin-3-one)
Hazard Class:	8
ID Number	UN3265
Packing Group	PGII

BULK

Proper Shipping Name	Corrosive Liquid, Acidic, Organic n.o.s. (5-Chloro-2- methl-4-isothiazolin-3-one)
Hazard Class	8
ID Number	UN3265
Packing Group	PGII

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STORAGE/HANDLING

- 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.
- Always wear personal protective equipment (PPE) when handling BIONIX ISO2A. While the selection of PPE depends on the task to be performed, the environment and the engineering controls in place, the following is the minimum PPE to be worn when handling containers of the product: splash proof chemical goggles, chemical resistant gloves which extend about the wrist, long sleeve shirt and long pants, socks and chemical resistant footwear.

HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS



CORROSIVE



IRRITANT

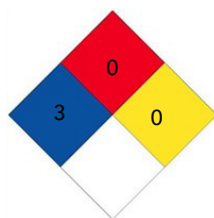


ENVIRONMENTAL
HAZARD

HMIS (USA)

HEALTH	3
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	Jq

NFPA



NOTICE TO READER

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