

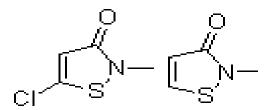
PRODUCT DATA SHEET

14.5% CMIT/MIT

DESCRIPTION

BIONIX ISO14, 14.5% 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. H. CL. N. O.

Molecular Formula CMIT: $C_5H_6CL_2N_2O_2$ Molecular Formula MIT: C_4H_4CINOS 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/nonpersistent in the environment

PHYSICAL PROPERTIES

Solubility in water

Boiling Point

Appearance Liquid Specific Gravity 1.3
Color Clear Yellow Density 10.84
pH 2.0- 4.0

Soluble 100°C/212°F

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APPLICATION/USES

BIONIX IS014 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 ISO14 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, pH and redox potential 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, industrial recirculating water cooling towers, paint spray booths, ultra filtration units and non-medical/nopotable 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, zanthan gum, gum arabic, guar gum, protein-derived polymers, starches, casein derived polymers latices and solutions polymers, photoplate processing, fountain solutions and ink/ink components, wood and wood products, liquid and semi-solid/solid household, consumer, industrial janitorial products, metal working fluid preservation, metal cleaning fluid preservation, electrodeposition paint components, building materials.

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 exceed ing 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

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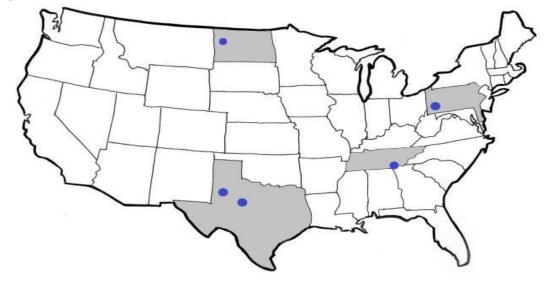
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PACKAGING

TYPE	LBS	KG
5 gal. Pails, 32 Pails/pallet	50 lbs	23 kg
15 gal. Drum, 9 Drums/pallet	155 lbs	70 kg
30 gal. Drum, 5 Drums/pallet	305 lbs	138 kg
55 gal. Drum. 4 Drums/pallet	555 lbs	252 kg
275 gal. Tote	2,755 lbs	1250 kg
Bulk	41,325 lbs	18744 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-2methl-4-isothiazolin-3-one)

Hazard Class:

ID Number UN3265 Packing Group **PGII**

BULK

Proper Shipping Name Corrosive Liquid, Acidic,

> Organic n.o.s. (5-Chloro-2methl-4-isothiazolin-3-one)

Hazard Class 8

UN3265 **ID** Number 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 an other materials.
- Always wear personal protective equipment (PPE) when handling BIONIX ISO14. 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

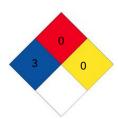
IRRITANT

ENVIRONMENTAL HAZARD

HMIS (USA)



NFPA



NOTICE TO READER

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