

BIONIX® GA50 50% GLUTARALDEHYDE

DESCRIPTION

BIONIX GA50, 50% Glutaraldehyde, is a highly effective microbiocide for controlling spoilage, odor causing, corrosion inducing, slime-forming bacteria, sulfate-reducing bacteria, fungi, yeast molds and algae in paper mills and paper mill process water systems, water-based coatings for paper and paperboard, air washers, recirculating cooling water systems, heat transfer systems, oil well drilling, oil field processing applications , pigments and filler slurries for food contact paper and paperboard.

STRUCTURE AND INFORMATION



CAS #: **EINECS:** Chemical Family: Molecular Formula: Molecular Weight:

111-30-8 203-856-5 Dialdehyde C₃H₈O₂ 100

PRODUCT DATA SHEET

BENEFITS

- Broad spectrum antimicrobial
- Functional over a broad pH and temperature range
- Fast-acting
- Does not contain or release formaldehyde
- Compatible with commonly used "wet-end" additives
- Compatible with anionic, • nonionic and cationic dispersant's
- Not affected by the presence • of hard water
- Low in toxicity and easy to • handle
- Can be diluted or deactivated easily
- Contains no heavy metals

PHYSICAL PROPERTIES

Appearance Color pН Solubility in water **Boiling Point**

Transparent Liquid Colorless to light yellow 3.0 - 5.0 Miscible 100.5°C/213°F

Pour Point	-18°C/-0°F
Specific Gravity	1.13
Density	9.42
Flash Point	>302 ^o F

Revision 1.30.20



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PRODUCT DATA SHEET

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APPLICATION/USES

BIONIX GA50 can be dosed directly either by open pouring (not approved for cooling water treatment) or by metered pump. BIONIX GA50 is best added after any heating stage or when the product has cooled below 40°C. Not for the control of algae in the State of California.

WATER TREATMENT

• Air washers and industrial scrubbing systems/recirculating cooling and process water, service water and auxiliary systems, heat transfer systems, industrial wastewater systems, beet sugar mills and beet sugar mill process water systems

PAPER MILLS

• Paper mills and paper mills process water systems, pigments and filler slurries for paper and paperboard, water based coatings for paper and paperboard

GENERAL PRESERVATIVE

 Non-food contact for industrial, institutional and consumer non-food contact products, mineral slurries, paints, plastics, pigments, lattices, printing inks, laundry detergents, cleaning products, concentrates, concrete admixtures, reverse osmosis membranes water based conveyor lubricants, preservative for concentrates. Food contact for preservation of food contact adhesives and minerals slurries used in papermaking.

OIL/GAS PRODUCTION

• Water floods, drilling, completion and workover fluids, packer fluids, oil products and transmission pipelines and systems, gas production and transmission pipelines and systems, gas storage wells and systems, hydrotesting, pipeline pigging and scraping operations, injections waste fluids.

21CFR 172.230 21CFR 173.320	Cleared for use as a cross linking agent Chemicals for Controlling Microorganisms in Beet-Sugar Mills (max. 250ppm active)
21 CFR 173.357	Fixing agent in the immobilization of glucose isomerase enzyme preparations or use in manufacture of high fructose corn syrup
21 CFR 175.105	Adhesives
21 CFR 176.170	Cleared for use as antimicrobial agent in pigment and filler slurries used in manufacture of paper and paperboard (max. 300ppm active)
21 CFR 176.180	Components of Paper and Paperboard in contact with dry food (max. 300 ppm active)
21 CFR 176.300	Slimicides

21 CFR CLEARANCES

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PACKAGING

ТҮРЕ	LBS	KG
5 gal. Pails, 32 pails/pallet	45 lbs	20 kg
55 gal. Drum, 4 drums/pallet	500 lbs	227 kg
275 gal. Tote	2,425 lbs	1099 kg
Bulk	44,000 lbs	19958 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

Hazard Class: ID Number Packing Group Corrosive Liquid, Toxic, NOS(contains Glutaldehyde) 8 UN2922 PGII

BULK

Proper Shipping Name

Hazard Class ID Number Packing Group Corrosive Liquid, Toxic, NOS(contains Glutaraldehyde) 8 UN2922 PGII

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STORAGE/HANDLING

- Under proper conditions, aqueous glutaraldehyde solutions may be stored for extended periods of time with no adverse effects. The material should be stored at or below room temperature whenever possible in order to minimize decomposition. Glutaraldehyde solutions show no change in concentration after one year storage at 25°C and 37°C.
- Handle BIONIX GA50 in well ventilated areas and wear appropriate protective equipment for the task. At a minimum, this includes proper gloves, splash-proof chemical goggles or both safety glasses with side shields and a wrap-around full-face shield, coveralls and boots.

HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS





NOTICE TO READER

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