

BIONIX® DB20

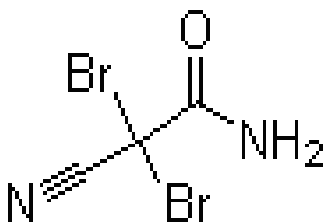
PRODUCT DATA SHEET

20% DBNPA

DESCRIPTION

BIONIX DB20, 20% 2,2-dibromo-3-nitrilopropionamide, is a fast acting, broad spectrum, microbiocide for controlling spoilage, odor causing, corrosion inducing, slime-forming bacteria, sulfate-reducing bacteria, fungi, yeast molds and algae in industrial process and water systems, including paper mills, industrial cooling water systems, controls the growth of microorganisms in preservation applications, equipment cleaning, and oil field processing applications.

STRUCTURE AND INFORMATION



CAS #:	10222-01-2
EINECS:	233-539-7
Chemical Family:	Dibromo-3-nitrilopropionamide
Molecular Formula:	C ₃ H ₂ Br ₂ N ₂ O
Molecular Weight:	242

BENEFITS

- Low environmental impact
- Fast acting microbiocide
- Rapid decomposition in aquatic environments with only carbon dioxide, ammonia and bromide ions remaining as end products
- Chlorine compatible
- Completely miscible with water and easily dispersed upon introduction into your system
- Broad spectrum microbiocide, effectively controlling bacteria, yeast, fungi and algae

PHYSICAL PROPERTIES

Appearance/Form	Clear, yellow to amber	Freezing Point	-34°C/30°F
Color (AHPA)	N/A	Specific Gravity,@25°C	1.25
pH @25°C	2.83	Vapor Pressure@25°C	18.9 mmHg
Solubility in water, 20°C	Soluble		
Boiling Point	70°C/158°F		

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APPLICATION/USES

BIONIX DB20 can be dosed directly either by open pouring (not recommended for cooling water treatment) or by metered pump either intermittently or on a continuous basis. BIONIX DB20 is best added after any heating stage or when the product has cooled below 40°C. This product is not registered for the use in the State of California.

WATER TREATMENT

- Air washers and industrial /recirculating cooling water, publicly-owned treatment works to control coliform and other bacteria, brewery pasteurizer water, non-potable reverse osmosis systems.

PAPER MILLS

- Pulp, paper mills and paper mills process water systems. Typical addition points are the beaters, jordan inlet or discharge, broke chests, furnish chests, savealls and/or white-water tanks.

GENERAL PRESERVATIVE

- This product is used to reduce contamination in raw materials and/or products such as: aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions, metalworking fluids, sizing, caulk, process water, along with specialty industrial products including: inks, polishes, waxes, detergents and cleansers.

EQUIPMENT CLEANING

- This product kills microorganisms present in solution or growing on the surfaces of process equipment such as reaction vessels, storage tanks and containers, piping and hoses.

OIL/GAS PRODUCTION

- Oilfield and petrochemical systems, enhanced oil recovery systems and fracturing fluids.

21 CFR CLEARANCES

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. 500ppm product). Cleared for use in components of paper and paperboard in contact with aqueous and fatty foods (max. 500ppm product)
21 CFR 176.180	Components of Paper and Paperboard in contact with dry food (max. 500 ppm product)
21 CFR 176.300	Slimicides (max. 0.1lb product/ton dry wt. fiber)

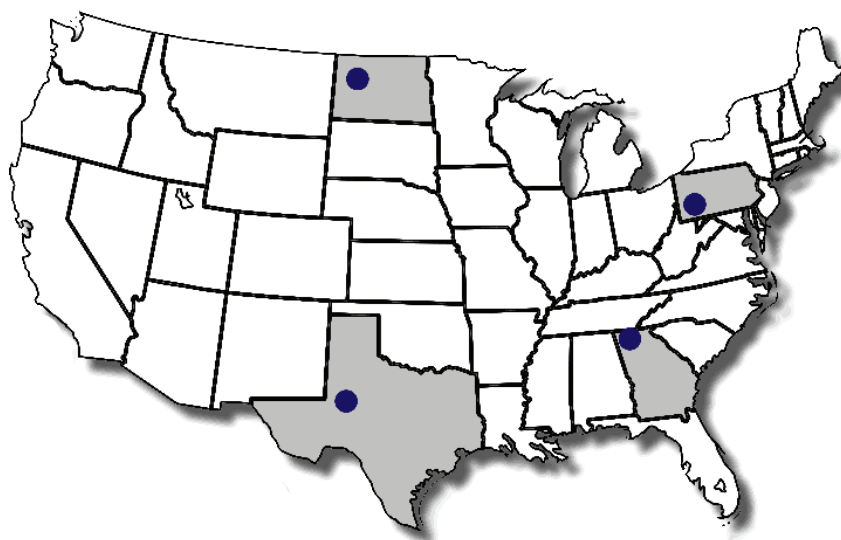
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PACKAGING

TYPE	LBS	KG
Pails	X lbs	X kg
55 gal. Drum	500 lbs	227 kg
275 gal. Tote	2,700 lbs	1,224 kg
330 gal. Tote	X lbs	X kg
Bulk	44,000 lbs	X kg

SHIPPING LOCATIONS



Newill, PA
Dalton, GA
Newtown, ND
Big Spring, TX

SHIPPING INFORMATION

U.S. D.O.T

NON-BULK

Proper Shipping Name	Not regulated as a dangerous good
Hazard Class:	N/A
ID Number	N/A
Packing Group	N/A

BULK

Proper Shipping Name	Not regulated as a dangerous good
Hazard Class	N/A
ID Number	N/A
Packing Group	N/A

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STORAGE/HANDLING

- Product must be stored in closed, but vented, containers in an area with good general ventilation and out of direct sunlight to prevent build up of vapors over time. Product must not be stored at temperatures greater than 35°C. Avoid adiabatic conditions in pumps which have caused accidents; CO₂ evolution and pressure release. Aqueous solutions in plastic containers should not be left in direct sunlight.
- Always wear personal protective equipment (PPE) when handling BIONIX DB20. 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

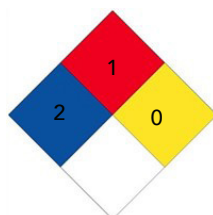


IRRITANT

HMIS (USA)

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	<input type="checkbox"/>

NFPA



NOTICE TO READER

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