



DBNPA 100 Powder & DBNPA 100 PTECH

2,2-Dibromo-3-nitrilopropionamide (Solid form)

CAS No. 10222-01-2

$C_3H_2N_2OBr_2$

General

DBNPA is a fast-acting, non-oxidizing biocide. It has outstanding environmental properties because it is non-persistent and degrades to naturally-occurring products. DBNPA provides efficient, cost-effective microbiological control at low use concentrations. DBNPA 100 POWDER and DBPNA 100 PTECH are free-flowing white crystalline solids.

Use

DBNPA 100 POWDER is EPA registered (EPA Reg. No. 464-389) as an end-use product to control microorganisms in cooling towers, paper mills, and oil field applications. DBNPA 100 PTECH (EPA Reg. No. 464-655) is registered for manufacturing use only.

Composition

DBNPA	97.6%
Inert Ingredients	2.4%

Typical Properties

Solubility in water	max. 15%
pH of Saturated Solution	6.8
Bulk Density (loose pack poured)	approx. 0.9 g/cc
Bulk Density (packed with tapping)	approx. 1.4 g/cc
Vapor Pressure (mm Hg @ 25°C)	2.2×10^5
Shelf-life	>2 years

Toxicity

LD ₅₀ , rat oral	201 mg/kg
LD ₅₀ , rabbit skin absorption	>2000 mg/kg

May cause serious eye damage. See MSDS and label.

Environmental Data

EC ₅₀ , 48 hr., Daphnia magna	0.6 mg/L
LC ₅₀ , 96 hr., Fathead minnow	1.4 mg/L
LC ₅₀ , 96 hr., Rainbow trout	1.0 mg/L
LD ₅₀ , oral, Mallard duck	>200 mg/kg
Partition Coefficient (mineral oil/water)	P = 0.1

Reactivity

Inactivated by strong nucleophiles.

Storage

Store below 35°C in the original container out of direct sunlight.

Product Stewardship

Dow encourages its customers to review their applications of Dow products from the standpoint of human health and environmental safety. To help ensure that Dow products are not used in ways for which they are not intended or tested, Dow personnel are willing to assist customers in dealing with ecological and product safety considerations. Dow literature, including Safety Data Sheets, should be consulted prior to use of Dow products. Contact your Dow representative if you need any assistance or information.

**For further information visit our website:
www.dowbiocides.com or call...**

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