

Uniphos Chemicals

No. 8, Tonghai 2nd Road Rudong, Nantong 226407, China

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Safety Data Sheet

Version 2.0

1. Identification

1.1 Product Identifier:

Trade Name:	XF-993D (DBNPA 20%) Biocides & Preservatives
Chemical Name	2, 2 Dibromo-3-Nitrilopropionamide

1.2 Recommended use of the Chemical and Restrictions on use:

Recommended Use	Used to control microbial, fungal and algal growth in industrial water systems such as cooling towers and evaporative condensers, pulp and paper mill effluents, oil-recovery systems, metal-cutting coolants, air-conditioning systems (effective against Legionnaire's Disease).
Restrictions on use	None known

1.3 Supplier's Details

Company Name	Nantong Uniphos Chemicals Co., Ltd.	
Address	No. 8, Tonghai 2nd Road	
	Rudong Coastal Economic Development Zone,	
	Nantong 226407, China	
Telephone NO.	+86-513-6990 8111	

1.4 Emergency Telephone Number

Telephone NO.	+86-519-8386 0599	
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2. Hazards Identification

2.1 Classifications of the substance:

Acute toxicity- Oral	Category 5
Acute toxicity- Dermal	Category 5
Acute toxicity- Inhalation	Category 5
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1
Long-term hazards to the aquatic environment	Category 2

2.2 Label Elements

Symbol	!
Signal Word	Warning!

•		·
Hazard Statement	H303	May be harmful if swallowed
	H313	May be harmful in contact with skin
	H333	May be harmful if inhaled.
	H315	Cause skin irritation!
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H411	Toxic to the aquatic life with long lasting effects.

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2.3 Precautionary Statement

XF-993D (DBNPA 20%) SDS

Prevention		
P261	Avoid breathing dust/fumes/gas/mist/vapors/spray.	
P264	Wash hands and contaminated body thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P273	Avoid release to the environment. Wear protective gloves/clothing, eye protection and face protection.	
P280		

Response

P301+P302+P304 +P312+P330+P352	IF SWALLOWED,ON SKIN or INHALED: Rinse mouth. Wash skin with plenty of soap and water. Call a POISON CENTER/doctor /physician if you feel unwell.		
P321	Specific treatment if immediate administration of antidote is required.		
P333+ P337+P313	If skin irritation/rash occurs or eye irritation persists: Get medical advice / attention.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses ,if present and easy to do. Continue rinsing.		
P362	Take off contaminated clothing and wash before reuse.		
P391	Collect spillage.		

Storage

P405	Store locked up.

Disposal

P501	Dispose of contents / container in accordance with local / regional /	
	national / international regulations.	

3. Composition / Information on ingredients

Ingredients(Chemical Name)	CAS NO.	Concentration Range
2, 2 Dibromo-3-nitrilopropionamide	10222-01-2	20.00 – 22.00%
Water	7732-18-5	20-25%
Proprietary	N/A	55-65%
Total		100%

4. First-aid measures

4.1 Description of first-aid measures

	Symptoms of poisoning may occur even after several hours; therefore
General	medical observation is suggested for at least 48 hours after the accident.
Advice	
110,100	Immediately remove any clothing soiled by the product.
Rinse opened eye for several minutes under running water. Then co	
Eye Contact	doctor.
	Remove contaminated clothing. Wash skin thoroughly with mild soap and
Skin Contact	plenty of water for at least 15 minutes. Wash clothing before re-use. Get
	medical attention immediately.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for
Illialation	breathing. Call a POISON CENTER or doctor/physician immediately.
If swallowed	Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
II swanowed	NOTE: Never give an unconscious person anything to drink.
Notes to	Corrosive to eyes. In case of ingestion do not induce vomiting. No specific
Physician	antidote. Treat symptomatically and supportively.

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4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No special measures are required

5. Fire-fighting Measures

5.1 Suitable Extinguishing Media

Carbon dioxide, dry chemicals, foam, water spray (fog). Cool containers with water spray

5.2 Unsuitable Extinguishing Media

None known

5.3 Specific hazards arising from the chemical

Dust may form a weak explosive mixture with air (class St1), but is not sensitive to ignition from electrostatic discharges. Will decompose from ca. 160°C releasing poisonous and corrosive fumes of HBr, Br2 and NOx.

5.4 Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode.

Do not inhale combustion vapors.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation Avoid formation of dust. Wear protective equipment. Keep unprotected persons away. Do not smoke - keep ignition sources away

6.2 Environmental Precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

Inform responsible authorities in case of seepage into the ground.

6.3 Methods and material for containment and cleaning up

- 6.3.1 Ensure adequate ventilation.
- 6.3.2 Avoid dust formation absolutely.
- 6.3.3 If necessary pick up with a tested and approved industrial vacuum cleaner.
- 6.3.4 Send for recovery or disposal in suitable receptacles.
- 6.3.5 Dispose contaminated material as waste according to item 13

7. Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any deposit of dust which cannot be avoided must be regularly removed. Avoid inhalation and ingestion. Dust can combine with air to form an explosive mixture. Keep ignition sources away - Do not smoke. Protect against electrostatic charges

7.2 Conditions for safe storage, including any incompatibilities

7.2.1Requirements for storerooms and containers:

Store container tightly sealed at a cool and dry place with sufficient ventilation.

Store away from foodstuffs, oxidizing agents and flammable materials.

7.2.2 Further details:

Keep receptacle tightly sealed.

8. Exposure Controls / Personal Protection

8.1 Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Keep away from open flames and other ignition sources. Protect against electrostatic charges.

8.2 Individual protection measures

General	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Do not inhale dust / smoke / mist. Vacuum clean contaminated clothing. Do not blow or brush off contamination.	
	Wash hands before breaks and at the end of work. Wear Protective	
	gloves(Check protective gloves for proper condition before use). To avoid	
Hand	skin problems reduce the wearing of gloves to the required minimum.	
Protection	Preventive skin protection by using skin-protecting agents is	
	recommended. After use of gloves apply skin-cleaning agents and skin	
	cosmetics.	
Eye protection	Wear tightly sealed chemical safety goggles & Avoid contact with the eyes.	

Skin Protection

Respiratory

Protection

measures:

Hygiene

Safety shower and eye bath should be provided.

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Wear pro	tective work clothin	g & Avoid contact with the	skin.
	protection cream for	0	
Wear app	proved full-face pie	ce airline respirator in the	e positive pressure
mode wit	h emergency case pr	rovisions.	

Do not eat, drink or smoke until after-work shower and changing clothes.

9. Physical and chemical properties

Appearance	Clear yellow liquid
Odour:	Not available
Odour threshold	Not available
pH (as is)	2.0-5.0
Melting point/Freezing point:	Not available
Initial Boiling point and boiling range	Not available
Flash Point:	Not available
Evaporation rate	Not available
Flammability	Product is not flammable.
Danger of explosion:	Not available
Flammability :Upper	Not available
Flammability: Lower	Not available
Thermal decomposition	From 160°C
Explosive Limits: Upper	Not explosive
Explosive Limits: Lower	Not explosive
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.20-1.30
Solubility at 25.0°C	Soluble
Partition coefficient: n-octanol / water	Not available
Auto-ignition Temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

10. Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under normal temperatures and pressures.
Possibility of Hazardous reaction	No dangerous reactions known
Conditions to Avoid	Oxidizing agents, reducing agents, alkali, acid
	chlorides, acid anhydrides.
Incompatible Materials	Exposure to light; Heating
Hazardous Decomposition	Br ₂ , HBr, NOx.
Products	

11. Toxicological information

Acute Toxicity:

Test	Results	Basis
Oral Toxicity (Rats)	LD ₅₀ ≥2.0g/kg	Product Test Data
Dermal Toxicity (Rats)	LD ₅₀ ≥2.0g/kg	Product Test Data
Inhalation Toxicity, Vapor (Rats)	LD ₅₀ ≥2.0g/kg	Product Test Data

Date: Oct.1st,2017

Other information

Items	Results
Skin corrosion / Irritation	Cause skin irritation!
Serious eye damage / Irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not available
Carcinogenicity	Not available
Reproductive toxicity	Not available
STOT-Single exposure	Not available
STOT-repeated exposure	Not available
Aspiration hazard	Not available
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Summary Comments: Component A may have a drying effect on the skin; frequent or prolonged contact may cause flaking or cracking of the skin.

12. Ecological Information

Below data are acquired from solid DBNPA.

Toxicity:	Fish(Rainbow trout)	LC50, 96H, 2.3mg/kg;
	Fish(Fathead minnow)	LC50, 96H, 1.8-2.2mg/kg;
	Fish(Sheepshead minnow)	LC50, 96H, 3.3mg/kg;
	Fish (Bluegill sunfish)	LC50, 96H, 2.3mg/kg;
	Fish (Mysid shrimp)	LC50, 96H, 0.72mg/kg;
	Fish (Eastern oyster)	LC50, 96H, 0.37mg/kg;
	Avian(bobwhite quail)-Oral	LD50, 48H, 354 mg/kg
	Avian(Mallard duck)-Dietary	>5620 ppm
Toxicity:	Invertebrate(Daphnia magna)	LC50, 96H, 0.66mg/L;
	Green algae(selenastrum	EC 50, 0.30mg/L
	capricornutum)	
Bioaccumulative potential	None Available.	
Mobility in soil:	None Available.	
Other adverse effects:	Product contains organic halogens, may contribute to AOX.	
	Do not allow product to reach ground water, water course or	
	sewage system. Danger to drinking water if even small	
	quantities leak into the ground.	

13. Disposal considerations

	Consult the local environmental protection department.	
	This product must be specially treated adhering to official regulations.	
General	This product should not be dumped, spilled, rinsed or washed into sewers or	
	public waterways.	
	This product must not be disposed of together with household garbage.	
Miscellaneous	Local, State, Provincial and national disposal regulations may be more or	
advice	less stringent.	
	Consult your attorney or appropriate regulatory officials for information on	
	such disposal.	

14. Transport Information

UN NO.:	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S
	2, 2 DIBROMO-3-NITRILOPROPIONAMIDE
Transport Hazard Class	9
Packing Group:	III
Environmental hazards	Yes
Transport label:	
Transport in bulk according to Annex II of MARPOL 73/78	
No data available.	

15. Regulatory Information

All components are on chemical inventory of U.S. TSCA, Canadian DSL, EU EINECS, Japanese ENCS, Australian AICS, Korean, Chinese, Philippine PICCS.

16. Other Information

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Declaration

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