

NALCO® 7320

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	NALCO® 7320		
Other means of identification	:	Not applicable.		
Recommended use	:	MICROORGANISM CONTROL CHEMICAL		
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.		
Company	:	Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198 USA TEL: (630)305-1000		
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC		
Issuing date	:	06/06/2016		

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)	:	Category 3
Acute toxicity (Inhalation)	:	Category 3
Skin irritation (Dermal)	:	Category 2
Serious eye damage	:	Category 1
Skin sensitization	:	Category 1

GHS Label element

Hazard	pictograms
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Signal Word	:	Danger
Hazard Statements	:	Causes serious eye damage. May cause an allergic skin reaction. Causes skin irritation. Toxic if swallowed or if inhaled
Precautionary Statements	:	Prevention: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair):

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS Pure substance/mixture : Mixture Chemical Name CAS-No. Concentration: (%) Polyethylene Glycol 25322-68-3 30 - 60 2.2-Dibromo-3-nitrilopropionamide 10222-01-2 10 - 30 Sodium Bromide 7647-15-6 1 - 5 Dibromoacetonitrile 3252-43-5 0.1 - 1 Section: 4. FIRST AID MEASURES In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately. In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention. If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention immediately. Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required. Notes to physician : Treat symptomatically. Most important symptoms : See Sect	NALCO® 7320				
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and effects, both acute and	Notes to physician	:	Treat symptomatically.		
	Most important symptoms and effects, both acute and delayed	:	See Section 11 for more deta	ailed information on hea	alth effects and symptoms.

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Unsuitable extinguishing media	:	None known.
Specific hazards during firefighting	:	Not flammable or combustible.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen halides
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Stop leak if safe to do so. Contain spillage, and then collect with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	:	Avoid contact with skin and eyes. Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	:	Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Suitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: PVC, Polypropylene, Polyethylene, Hastelloy C-276, HDPE (high density polyethylene), PTFE, Fluoroelastomer
Unsuitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Copper, Brass, Aluminum, Mild steel, Buna-N, Ethylene propylene, Neoprene, Polyurethane, Stainless Steel 304, Stainless Steel 316L, Carbon steel, Chlorosulfonated polyethylene rubber

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Components	CAS-No.	Form of exposure	Permissible concentration	Basis	
Polyethylene Glycol	25322-68-3	TWA (Aerosol.)	10 mg/m3	AIHA WEEL	
Engineering measures		Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.			
Personal protective equipme	ent				
Eye protection	: Safety goggles Face-shield				
Hand protection	Standard glove Gloves should b	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.			
Skin protection	: Wear suitable p	Wear suitable protective clothing.			
Respiratory protection		When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.			
Hygiene measures	and wash conta exposed skin the	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.			

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	colourless
Odour	:	Mild, Disinfectant
Flash point	:	> 182 °C, Method: ASTM D-92, COC
рН	:	1.5 - 5.0, 100 %, Method: ASTM E 70
Odour Threshold	:	no data available
Melting point/freezing point	:	POUR POINT: -45 °C, ASTM D-97
		FREEZING POINT: -50 °C
Initial boiling point and boiling range	:	> 70 °C, Decomposes on heating.
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper explosion limit	:	no data available
Lower explosion limit	:	no data available
Vapour pressure	:	< 0.1 mm Hg, (21 °C),
Relative vapour density	:	no data available
Relative density	:	1.20 - 1.30, (23 °C), ASTM D-1298

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:	10.0 - 10.8 lb/gal
:	completely soluble
:	no data available
:	138 mPa.s (20 °C)
:	no data available
:	no data available
:	no data available
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Section: 10. STABILITY AND REACTIVITY					
Chemical stability	:	Stable under normal conditions.			
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.			
Conditions to avoid	:	Heat Extremes of temperature None known.			
Incompatible materials	:	Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors. Oxidizing agents Aluminum			
Hazardous decomposition products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Hydrogen halides Bromine cyanogenbromide and dibromoacetonitrile			

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation, Eye contact, Skin contact
exposure		

Potential Health Effects

Eyes	:	Causes serious eye damage.
Skin	:	Causes skin irritation. May cause allergic skin reaction.

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Ingestion	: Toxic if swallowed.		
Inhalation	Toxic if inhaled.		
Chronic Exposure	: Health injuries are not known or expected under normal use.		
Experience with human experience	osure		
Eye contact	: Redness, Pain, Corrosion		
Inhalation	: Respiratory irritation, Cough		
Toxicity			
Product			
Acute oral toxicity	 LD50 rat: 178 - 235 mg/kg Test substance: Active Substance LD50 guinea pig: 118 mg/kg Test substance: Active Substance 		
	rabbit: 118 mg/kg Test substance: Active Substance		
Acute inhalation toxicity	: LC50 rat: 1.4 mg/l Exposure time: 4 hrs Test substance: Product		
	rat: 1.25 mg/l Exposure time: 4 hrs Test substance: Product		
Acute dermal toxicity	: no data available		
Skin corrosion/irritation	: no data available		
Serious eye damage/eye irritation	: no data available		
Respiratory or skin sensitization	: no data available	no data available	
Carcinogenicity			
IARC	Group 2B: Possibly carcinogenic to humans Active ingredient did not carcancer in laboratory animals. There is evidence that dibromoacetonitrile (DBAN), a possible by-product of 2,2-dibromo-3-nitrilopropionamide (DBNP can produce cancer in laboratory animals. However, the relevance of this to humans is unknown. Dibromoacetonitrile 3252-43-5	PA),	
	No component of this product present at levels greater than or equal to 0.19 identified as probable, possible or confirmed human carcinogen by IARC.	% is	
OSHA	No component of this product present at levels greater than or equal to 0.19 identified as a carcinogen or potential carcinogen by OSHA.	% is	
NTP	No component of this product present at levels greater than or equal to 0.19 identified as a known or anticipated carcinogen by NTP.	% is	

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Reproductive effects		no data available
Germ cell mutagenicity	:	no data available
Teratogenicity	:	no data available
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available
Components		
Acute dermal toxicity	:	Polyethylene Glycol LD50 rabbit: 20,000 mg/kg
		Sodium Bromide LD50 rabbit: > 2,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

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Environmental Effects	: Toxic to aquatic life.
Product	
Toxicity to fish	: LC50 Lepomis macrochirus (Bluegill sunfish): 8.9 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Oncorhynchus mykiss (rainbow trout): 3.6 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Cyprinodon variegatus (sheepshead minnow): 7.5 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Pimephales promelas (fathead minnow): 1.36 mg/l Exposure time: 96 hrs Test substance: Active Substance
	LC50 Oncorhynchus mykiss (rainbow trout): 1 mg/l Exposure time: 96 hrs Test substance: Active Substance
	LC50 Cyprinodon variegatus (sheepshead minnow): 1.4 mg/l Exposure time: 96 hrs Test substance: Active Substance
	LC50 Bluegill Sunfish: 1.3 mg/l Exposure time: 96 hrs Test substance: Active Substance
	LC50 Leuciscus idus (Golden orfe): 4.7 mg/l Exposure time: 96 hrs

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	Test substance: Product
	NOEC Lepomis macrochirus (Bluegill sunfish): 6.5 mg/l Exposure time: 96 hrs Test substance: Product
	NOEC Oncorhynchus mykiss (rainbow trout): 2.8 mg/l Exposure time: 96 hrs Test substance: Product
	NOEC Cyprinodon variegatus (sheepshead minnow): 3.2 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	LC50 Mysid Shrimp (Mysidopsis bahia): 4.2 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Daphnia magna (Water flea): 4.3 mg/l Exposure time: 48 hrs Test substance: Product
	LC50 Daphnia magna (Water flea): 1.24 mg/l Exposure time: 48 hrs Test substance: Active Substance
	LC50 Grass Shrimp: 11.5 mg/l Exposure time: 96 hrs Test substance: Active Substance
	LC50 Acartia tonsa: 1.78 mg/l Exposure time: 48 hrs Test substance: Product
	LC50 Ceriodaphnia dubia: 6.67 mg/l Exposure time: 48 hrs Test substance: Product
	EC50 Mysid Shrimp (Mysidopsis bahia): 3.2 mg/l Exposure time: 96 hrs Test substance: Product
	EC50 Daphnia magna (Water flea): 2.5 mg/l Exposure time: 48 hrs Test substance: Product
	NOEC Daphnia magna (Water flea): 3.6 mg/l Exposure time: 48 hrs Test substance: Product
	NOEC Ceriodaphnia dubia: 5.0 mg/l Exposure time: 48 hrs Test substance: Product
Toxicity to algae	LC50 Marine Algae (Skeletonema costatum): 1.5 mg/l

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		Test substance: Product
Toxicity to bacteria	:	LC50 Pseudomonas putida: > 2.0 mg/l Test substance: Product

Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

Total Organic Carbon (TOC): 280,000 mg/l

Chemical Oxygen Demand (COD): 1,110,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value
5 d	1,100 mg/l

Test Descriptor Product

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	:	<5%
Water	:	10 - 30%
Soil	:	70 - 90%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This substance has a low potential to bioconcentrate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste:	:	D002
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Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

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Disposal considerations	 Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name(s)	: 2,2-DIBROMO-3-NITRILOPROPIONAMIDE
UN/ID No.	: UN 3265
Transport hazard class(es)	: 8
Packing group	: 111

Air transport (IATA)

Proper shipping name	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
Technical name(s)	: 2,2-DIBROMO-3-NITRILOPROPIONAMIDE
UN/ID No.	: UN 3265
Transport hazard class(es)	: 8
Packing group	: 111

Sea transport (IMDG/IMO)

Proper shipping name Technical name(s) UN/ID No. Transport hazard class(es)	 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 2,2-DIBROMO-3-NITRILOPROPIONAMIDE UN 3265 8
*Marine pollutant	: III : 2,2-Dibromo-3-nitrilopropionamide

*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

EPA Reg. No. : 1706-138

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

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SARA 302	 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The following components are subject to reporting levels established by SARA Title III, Section 313: 2,2-Dibromo-3- 10222-01-2 10 - 30 % 		
SARA 313			
	nitrilopropionamide		

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

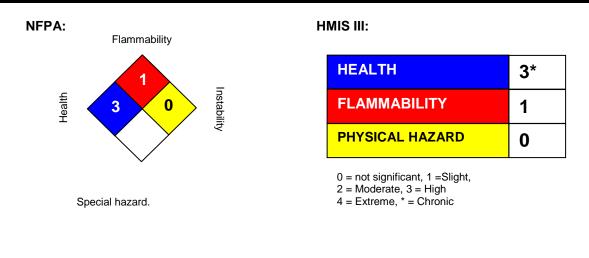
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION

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Revision Date	:	06/06/2016
Version Number	:	1.3
Prepared By	:	Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.