

PACKING LIST

480-M801001.88 US

ORION, PARKER KIT, 50 GAL, CHILLER

<u>SOL. NO.</u>	<u>SIZE</u>	<u>QTY</u>
7330	25ml	1
73199	100ml	1
8330	675ml	1

INCLUDED:

S.D.S.

Instruction Procedure

Copy of Biocide label

Important: If contents do not correspond with this list, report difference at once.

NALCO COMPANY

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE OR SKIN BURNS. HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. Do not get in eyes, on skin or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Mixers, loaders, and others exposed to this product must wear: long-sleeved shirt and long pants; chemical resistant gloves such as nitrile or butyl rubber; shoes plus socks; goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Do not apply this product in a way that will contact workers or other persons.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

This product is corrosive to mild steel. Do not store or transport in unlined metal containers.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

(Instructions for non-refillable containers 5 gallons or less:)

Container Handling: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedure approved by state and local authorities.

Net Contents Shown Elsewhere on Container

UN3265

Corrosive Liquid, Acidic, Organic, N.O.S. (Isothiazolinone Microbicide), 8, II
[Marine Pollutant; applicable to ocean]


Nalco 7330

A MICROBIOCIDAL FOR CONTROL OF BACTERIA, FUNGI AND ALGAE IN INDUSTRIAL RECIRCULATING WATER COOLING TOWERS, INDUSTRIAL PROCESS WATER SYSTEMS, AIR WASHER SYSTEMS, BREWERY PASTEURIZERS, AND ELECTRODEPOSITION SYSTEMS.

ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one.....	1.1%
2-Methyl-4-isothiazolin-3-one.....	0.4%
INERT INGREDIENTS.....	98.5%
TOTAL.....	100.0%

This product contains the active ingredients at 0.127 pounds per gallon

KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO

FIRST AID

If swallowed:

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing for at least 15 minutes or until it is judged that nearly all of the contamination has been removed.
- Call a poison control center or a doctor immediately for treatment advice.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or a doctor for treatment advice.

If inhaled:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or a doctor for further treatment advice.

NOTE TO PHYSICIAN:

Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage. Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Nalco Company
1601 West Diehl Road
Naperville, IL 60563-1198
EMERGENCY PHONE NO. (800) 424-9300

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

INDUSTRIAL COOLING TOWER SYSTEMS AND PROCESS WATER SYSTEMS
(Such as pretreatment systems and process waters used for washing metal or plastic parts and/or paint reduction.) For control of bacteria, fungi and algae, add NALCO 7330 to the tower basin, distribution box or some other point in the system to insure uniform mixing. Badly fouled systems must be precleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled apply 2.46 to 7.46 lbs. (37 to 113 fluid ounces) of NALCO 7330 per 1000 gallons of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 1.26 to 1.86 lbs. (19 to 28 fluid ounces) of NALCO 7330 per 1000 gallons of water in the system weekly or as needed to maintain control.

INDUSTRIAL RECIRCULATING CLOSED LOOP WATER COOLING SYSTEMS

For the control of bacteria, algae and fungi add NALCO 7330 to the reservoir, recirculating line or some other point in the system to insure uniform mixing.

INITIAL DOSE: When the system is noticeably fouled, apply 1.26 to 7.46 lbs. (19 to 113 fluid ounces) of NALCO 7330 per 1000 gallons of water in the system. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm NALCO 7330 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of NALCO 7330 per 1000 gallons of in the system) weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

AIR WASHER SYSTEMS AND BREWERY PASTEURIZERS

For control of bacteria, algae and fungi, add NALCO 7330 to a point in the system where uniform mixing can occur such as the basin. FOR USE IN INDUSTRIAL AIR WASHER SYSTEMS THAT MAINTAIN EFFECTIVE MIST ELIMINATING COMPONENTS. Badly fouled systems must be precleaned before treatment is begun.

INITIAL DOSE: When the system is noticeably fouled, add 1.26 to 7.46 lbs. (19 to 113 fluid ounces) of NALCO 7330 per 1000 gallons of system water. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 0.3 to 1.86 lbs. (4.5 to 28 fluid ounces) of NALCO 7330 per 1000 gallons system water weekly or as needed to maintain control.

ELECTRODEPOSITION SYSTEMS

(NOTE: THIS USE NOT CURRENTLY AUTHORIZED IN CALIFORNIA)

For control of bacteria, and fungi in Electrodeposition Systems (such as automotive or industrial equipment systems) slug feed NALCO 7330 at a rate of 1 gallon per 1000 gallons of paint in the system (1000 ppm) as needed, depending upon results of cultures taken from the system.

INTERMITTENT OR SLUG METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm NALCO 7330 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of NALCO 7330 per 1000 gallons of water in the system). Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 219 ppm NALCO 7330 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of water in the system). Weekly or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD

INITIAL DOSE: When the system is noticeably fouled, apply 148 to 883 ppm NALCO 7330 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of NALCO 7330 per 1000 gallons of water in the system). **SUBSEQUENT DOSE:** Maintain this treatment level by adding a continuous feed of 35 to 219 ppm NALCO 7330 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces per 1000 gallons of makeup water). Badly fouled systems must be cleaned before initial treatment.

EPA REG. NO. 1706-153

EPA Establishment numbers may include the following. (Letters in () that match the prefix in batch number identify the establishment number.)

1706-CA-1 (CR); 1706-CAN-1 (BU);
1706-IL-1 (BP); 1706-LA-1 (GV); 1706-PA-1 (EL);
1706-WA-1 (VW); 68708-OK-1 (TU);
68708-TX-1 (SL); 68708-TX-2 (FP);
68708-TX-3 (DS)

Revised: 01/25/2011

NR5

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 73199
Other means of identification : Not applicable.
Recommended use : CORROSION INHIBITOR
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) 424-8300 (24 Hours) CHEMTREC
Issuing date : 06/27/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4
Skin corrosion : Category 1B
Serious eye damage/eye irritation : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Harmful if swallowed.
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or

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methods 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : 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, Buna-N, HDPE (high density polyethylene), Viton, Polypropylene, Polyethylene, Stainless Steel 304, Epoxy phenolic resin
The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Brass, Polyurethane, Hypalon, Neoprene, EPDM, 100% phenolic resin liner
The following compatibility data is suggested based on similar product data and/or industry experience:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

This product does not contain any substance that has an established exposure limit. Contains no substances with occupational exposure limit values.

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

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doctor/ physician. Wash contaminated clothing before reuse.
Storage:
Store locked up.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Sodium Benzotriazole	15217-42-2	30 - 60

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 immediately.

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 if symptoms occur.

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.

See toxicological information (Section 11)

SECTION 5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media : None known.

Specific hazards during firefighting : Not flammable or combustible.

Hazardous combustion products : Carbon oxides nitrogen oxides (NOx)

Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing : Fire residues and contaminated fire extinguishing water must

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Face-shield
Hand protection : 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 : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures : 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 : Clear
Yellow
Odour : None
Flash point : does not flash
pH : 11.2
Odour Threshold : no data available
Melting point/freezing point : FREEZING POINT: -15 °C
Initial boiling point and boiling range : 104 °C (760 mm Hg)
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 : no data available
Relative vapour density : no data available
Relative density : 1.16 (25 °C)
Density : no data available
Water solubility : completely soluble
Solubility in other solvents : no data available
Partition coefficient: n-octanol/water : no data available
Auto-ignition temperature : no data available
Thermal decomposition : Carbon oxides nitrogen oxides (NOx)
Viscosity, dynamic : 8.6 mPa.s (25 °C)

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SARA 313

: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

AUSTRALIA

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

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

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

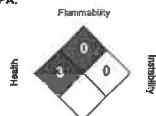
All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL).

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

NFPA:



Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 06/27/2014

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NALCO® 73199

Version Number

: 1.0

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 MSDS visit www.nalco.com and request access.

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Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 3 mPa.s (25 °C)
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: 0 %, EPA Method 24

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	: None known.
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
Hazardous decomposition products	: In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NOx) metal oxides Hydrogen chloride

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation, Eye contact, Skin contact
Potential Health Effects	
Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns. May cause allergic skin reaction.
Ingestion	: Causes digestive tract burns.
Inhalation	: Harmful if inhaled. May cause nose, throat, and lung irritation.
Chronic Exposure	: Health injuries are not known or expected under normal use.
Experience with human exposure	

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Eye contact	: Redness, Pain, Corrosion
Skin contact	: Redness, Pain, Irritation, Corrosion, Allergic reactions
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough
Toxicity	

Product

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity	: LC50 rat: 13.7 mg/l Exposure time: 4 hrs Test atmosphere: vapour Test substance: Product LC50: 13.7 mg/l Test atmosphere: vapour Acute toxicity estimate: 20.39 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Cardiogenicity	: no data available
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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Environmental Effects	: Very toxic to aquatic life.
Product	
Toxicity to fish	: LC50 Cyprinodon variegatus (sheepshead minnow): 32.000 mg/l Exposure time: 96 hrs Test substance: Product

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	LC50 Pinephales promelas (fathead minnow): 8 mg/l Exposure time: 144 hrs Test substance: Product (estimated)
	LC50 Lepomis macrochirus (Bluegill sunfish): 18.67 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Rainbow Trout: 12.67 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Inland Silverside: 16.62 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Cyprinodon variegatus (sheepshead minnow): 0.3 mg/l Exposure time: 96 hrs Test substance: Active Substance
	NOEC Cyprinodon variegatus (sheepshead minnow): 18,000 mg/l Exposure time: 96 hrs Test substance: Product
	NOEC Inland Silverside: 12.5 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	: LC50 Mysid Shrimp (Mysidopsis bahia): 18,000 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Ceriodaphnia dubia: 13 mg/l Exposure time: 48 hrs Test substance: Product
	LC50 Daphnia magna (Water flea): 8.7 - 12 mg/l Exposure time: 48 hrs Test substance: Product (estimated)
	LC50 Blue Mussel: 865 mg/l Exposure time: 48 hrs Test substance: Product (estimated)
	LC50 American Oyster: 1,730 mg/l Exposure time: 48 hrs Test substance: Product (estimated)
	NOEC Mysid Shrimp (Mysidopsis bahia): < 10 mg/l Exposure time: 96 hrs Test substance: Product
	NOEC Ceriodaphnia dubia: 10 mg/l Exposure time: 48 hrs

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	Test substance: Product (estimated)
Toxicity to algae	: EC50 Marine Algae (Skeletonema costatum): 0.003 mg/l Exposure time: 72 h Test substance: Active Substance EC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 0.018 mg/l Exposure time: 72 h Test substance: Active Substance

Persistence and degradability

Total Organic Carbon (TOC)	: 7,850 mg/l
Chemical Oxygen Demand (COD)	: 20,000 mg/l

Biochemical Oxygen Demand (BOD):	Value	Test Descriptor
Incubation Period	20 mg/l	

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite™, 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	: 30 - 50%
Soil	: 50 - 70%

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

Bioaccumulative potential

no data available

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.

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

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an approved waste disposal facility.

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) : 5-Chloro-2-Methyl-4-Isothiazolin-3-one
 UN/ID No. : UN 3265
 Transport hazard class(es) : 8
 Packing group : II

Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
 Technical name(s) : 5-Chloro-2-Methyl-4-Isothiazolin-3-one
 UN/ID No. : UN 3265
 Transport hazard class(es) : 8
 Packing group : II

Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
 Technical name(s) : 5-Chloro-2-Methyl-4-Isothiazolin-3-one
 UN/ID No. : UN 3265
 Transport hazard class(es) : 8
 Packing group : II

*Marine pollutant : 5-Chloro-2-Methyl-4-Isothiazolin-3-one

* Note: This product is regulated as a Marine Pollutant when shipped by Rail or Highway (in bulk quantities), and when shipped by water in all quantities.

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: 5-Chloro-2-Methyl-4-Isothiazolin-3-one

EPA Reg. No. : 1706-153

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

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
 Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitisation

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 :

United States TSCA Inventory

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

Australia, Industrial Chemical (Notification and Assessment) Act

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

Canadian Domestic Substances List (DSL)

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

Japan, ENCS - Existing and New Chemical Substances Inventory

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, Korean Existing Chemicals Inventory (KECI)

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

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

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).

China Inventory of Existing Chemical Substances

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Taiwan Chemical Substance Inventory

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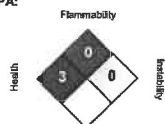
Section: 16. OTHER INFORMATION

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NFPA:



Special hazard.

HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Revision Date : 01/22/2019
 Version Number : 1.6
 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.

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Density	: 9.8 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: 3 mPa.s (21 °C)
Viscosity, kinematic	: no data available
Molecular weight	: no data available
VOC	: no data available

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	: None known.
Incompatible materials	: Amines Strong acids Reducing agents
Hazardous decomposition products	: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) metal oxides

Section: 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Eyes	: Causes serious eye damage.
Skin	: Causes severe skin burns.
Ingestion	: Harmful if swallowed. Causes digestive tract burns.
Inhalation	: May cause nose, throat, and lung irritation.
Chronic Exposure	: May cause damage to organs.

Experience with human exposure

Eye contact	: Redness, Pain, Corrosion
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Toxicity to daphnia and other aquatic invertebrates	NOEC Pimephales promelas (fathead minnow): 125 mg/l
	Exposure time: 96 hrs
	Test substance: Product
	LC50 Daphnia magna (Water flea): 250 mg/l
	Exposure time: 48 hrs
	Test substance: Product
	LC50 Ceriodaphnia dubia: 138 mg/l
	Exposure time: 48 hrs
	Test substance: Product
	EC50 Daphnia magna (Water flea): 120 mg/l
	Exposure time: 48 hrs
	Test substance: Product
	NOEC Daphnia magna (Water flea): 79 mg/l
	Exposure time: 48 hrs
	Test substance: Product
	NOEC Ceriodaphnia dubia: 100 mg/l
	Exposure time: 48 hrs
	Test substance: Product

Components

Toxicity to algae	: Substituted Triazole LC50 : 26.2 mg/l Exposure time: 72 h
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Persistence and degradability

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Chemical Oxygen Demand (COD): 77,600 mg/l

Biochemical Oxygen Demand (BOD):	
Incubation Period	Value
5 d	< 2 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	: 30 - 50%
Soil	: 50 - 70%

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

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Skin contact	: Redness, Pain, Corrosion
Ingestion	: Corrosion, Abdominal pain
Inhalation	: Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity	: Acute toxicity estimate: 904.52 mg/kg
Acute inhalation toxicity	: no data available
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
Carcinogenicity	: no data available
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	: Inorganic salt LD50 rat: > 5,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	: Harmful to aquatic life.
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Product

Toxicity to fish	: LC50 Oncorhynchus mykiss (rainbow trout): 38 mg/l Exposure time: 96 hrs Test substance: Product
	LC50 Pimephales promelas (fathead minnow): 303 mg/l Exposure time: 96 hrs Test substance: Product
	NOEC Oncorhynchus mykiss (rainbow trout): 13 mg/l Exposure time: 96 hrs Test substance: Product

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Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

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.
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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.

The presence of an RQ component (Reportable Quantity for U.S. DOT) in this product causes it to be regulated with an additional description of RQ for road, or as Environmentally hazardous for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Land transport (DOT)

Proper shipping name	: CORROSIVE LIQUID, N.O.S.
Technical name(s)	: SODIUM HYDROXIDE, SODIUM TOLYLTRIAZOLE
UNID No.	: UN 1760
Transport hazard class(es)	: 8
Packing group	: III
Reportable Quantity (per package)	: 508 lbs
RQ Component	: Sodium Nitrite

Air transport (IATA)

Proper shipping name	: CORROSIVE LIQUID, N.O.S.
Technical name(s)	: SODIUM HYDROXIDE, SODIUM TOLYLTRIAZOLE
UNID No.	: UN 1760
Transport hazard class(es)	: 8
Packing group	: III
Reportable Quantity (per package)	: 508 lbs

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SAFETY DATA SHEET

NALCO® 8338

RQ Component : Sodium Nitrite

Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, N.O.S.
Technical name(s) : SODIUM HYDROXIDE, SODIUM TOLYLTRIAZOLE
UN/ID No. : UN 1760
Transport hazard class(es) : 8
Packing group : III

Section: 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Nitrite	7632-00-0	100	508

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
Fire Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Sodium Nitrite 7632-00-0 10 - 30 %
Sodium Nitrate 7631-99-4 1 - 5 %US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D):
The following components are listed: Sodium Nitrite

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 :

United States TSCA Inventory

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

Australia, Industrial Chemical (Notification and Assessment) Act

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

Canadian Domestic Substances List (DSL)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

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Japan, ENCS - Existing and New Chemical Substances Inventory

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, Korean Existing Chemicals Inventory (KECI)

This product contains substance(s) which are not in compliance with the Chemical Control Act (CCA) and may require additional review.

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

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China Inventory of Existing Chemical Substances

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).

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Section: 16. OTHER INFORMATION

NFPA:



Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	1

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4 = Extreme, * = Chronic

Revision Date : 11/14/2017
Version Number : 1.3
Prepared By : Regulatory Affairs

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