

NALCO® EC1093A

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® EC1093A

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 Champion Company

7705 Highway 90-A

Sugar Land, Texas 77478

USA

TEL: (281) 263-7000

Emergency telephone

number

: (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 03/06/2015

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Acute toxicity (Dermal) : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A

GHS Label element

Hazard pictograms :





Signal Word : Danger

Hazard Statements : Flammable liquid and vapour.

Harmful if swallowed.
Toxic in contact with skin.
Causes skin irritation.
Causes serious eye irritation.

Precautionary Statements : Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take

lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Do not eat, drink or smoke when using

this product. Wear protective gloves/ eye protection/ face

protection.

NALCO® EC1093A

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool. 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: (%)

Quaternary ammonium compound Proprietary 30 - 60 Isopropanol 67-63-0 10 - 30

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.

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. Get medical attention if symptoms occur.

If inhaled : 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.

Most important symptoms and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and

symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

NALCO® EC1093A

Specific hazards during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Hazardous combustion

products

: Carbon oxides

Special protective equipment

for firefighters

: Use personal protective equipment.

Specific extinguishing

methods

: Use water spray to cool unopened containers. 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. Remove all sources of ignition. 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

: Eliminate all ignition sources if safe to do so. 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

: Avoid contact with skin and eyes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. 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 away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

NALCO® EC1093A

Suitable material : The following compatibility data is suggested based on similar

product data and/or industry experience: PVC, Perfluoroelastomer, EPDM, Polytetrafluoroethylene/polypropylene copolymer, HDPE (high density polyethylene), Natural rubber, Chlorosulfonated polyethylene rubber, Fluoroelastomer, Hastelloy C-276, Surface-

modified HDPE (high density polyethylene), Plexiglass, 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: Copper, Carbon Steel C1018, Stainless Steel 304, Stainless Steel 316L, Brass, Polyurethane, Neoprene, Aluminum, Ethylene propylene,

Polypropylene, Polyethylene

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Isopropanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm	NIOSH REL
			980 mg/m3	
		STEL	500 ppm	NIOSH REL
			1,225 mg/m3	
		TWA	400 ppm 980 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety glasses with side-shields

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 : Wear suitable protective clothing.

Respiratory protection : No personal respiratory protective equipment normally required.

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.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Colour : clear
Odour : Alcoholic

NALCO® EC1093A

: 24.4 °C Flash point

Method: ASTM D 93, Pensky-Martens closed cup

рН : 5.0 - 6.0, 100 %

Method: ASTM E 70

Odour Threshold : no data available

: MELTING POINT: -13.89 °C Melting point/freezing point

Initial boiling point and boiling

range

: 81.67 °C

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 : 85.9 mm Hg (38 °C) Relative vapour density : no data available Relative density : 0.95 - 0.97 (15.6 °C)

Density : 7.91 - 8.08 lb/gal Water solubility completely soluble Solubility in other solvents : no data available

Partition coefficient: n-

octanol/water

: no data available

: no data available Auto-ignition temperature Thermal decomposition : no data available

temperature

Viscosity, dynamic : no data available Viscosity, kinematic : 53 mm2/s (16 °C)

Method: ASTM D 445

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 : Heat, flames and sparks.

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

Oxides of carbon Oxides of nitrogen

Section: 11. TOXICOLOGICAL INFORMATION

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

NALCO® EC1093A

exposure

Potential Health Effects

Eyes : Causes serious eye irritation.

Skin : Toxic in contact with skin. Causes skin irritation.

Ingestion : Harmful if swallowed.

Inhalation : Health injuries are not known or expected under normal use.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact : Redness, Pain, Irritation

Skin contact : Redness, Irritation

Ingestion : No information available.

Inhalation : No symptoms known or expected.

Toxicity

Product

Acute oral toxicity : LD50 rat: 1,102 mg/kg

Test substance: Product

Acute inhalation toxicity : LC50 rat: > 92 mg/l

Exposure time: 4 hrs Test substance: Product

Acute dermal toxicity : LD50 rabbit: 900 mg/kg

Test substance: Product

Skin corrosion/irritation : Species: Rabbit

Result: 5.6

Method: Draize Test Test substance:Product

Serious eye damage/eye

irritation

: Species: rabbit

Result: 68.0

Method: Draize Test Test substance: Product

Respiratory or skin

sensitization

: no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : no data available

NALCO® EC1093A

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 Oncorhynchus mykiss (rainbow trout): 1.0 mg/l

> Exposure time: 96 hrs Test substance: Product

LC50 Lepomis macrochirus (Bluegill sunfish): 1.3 mg/l

Exposure time: 96 hrs Test substance: Product

aquatic invertebrates

Toxicity to daphnia and other : LC50 Daphnia magna (Water flea): 0.35 mg/l

Exposure time: 48 hrs Test substance: Product

Toxicity to terrestrial

: LC50 Bobwhite Quail: 620 mg/kg

organisms

Test substance: Product

LC50 Mallard Duck: 640 mg/kg Test substance: Product

Persistence and degradability

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

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% : 50 - 70% Soil

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

Bioaccumulative potential

The percentage of substances in this preparation estimated to have the potential to bioaccumulate is as follows:

NALCO® EC1093A

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: : D001

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.

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 : FLAMMABLE LIQUID, TOXIC, N.O.S.

Technical name(s) : ISOPROPANOL, QUATERNARY AMMONIUM COMPOUND

UN/ID No. : UN 1992 Transport hazard class(es) : 3, 6.1 Packing group : III

Air transport (IATA)

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.

Technical name(s) : ISOPROPANOL, QUATERNARY AMMONIUM COMPOUND

UN/ID No. : UN 1992 Transport hazard class(es) : 3, 6.1 Packing group : III

Sea transport (IMDG/IMO)

Proper shipping name : FLAMMABLE LIQUID, TOXIC, N.O.S.

Technical name(s) : ISOPROPANOL, QUATERNARY AMMONIUM COMPOUND

UN/ID No. : UN 1992 Transport hazard class(es) : 3, 6.1 Packing group : III

*Marine pollutant : QUATERNARY AMMONIUM COMPOUND

*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

NALCO® EC1093A

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 : Fire Hazard

Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established

by SARA Title III, Section 302:

Hydrochloric Acid 7647-01-0

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)

This product contains substance(s) which are found on the Non-Domestic Substances List (NDSL).

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.

Section: 16. OTHER INFORMATION

NALCO® EC1093A

NFPA: Flammability Instability

Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

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

Revision Date : 03/06/2015

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.