# NALCO Champion An Ecolab Company

#### **SAFETY DATA SHEET**

## **NALCO® EC1071A**

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® EC1071A

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 : 10/27/2015

# **Section: 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Flammable liquids : Category 3
Eye irritation : Category 2A
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1B
Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system, Central Nervous System)

Aspiration hazard : Category 1

**GHS Label element** 

Hazard pictograms :







Signal Word : Danger

Hazard Statements : Flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

Precautionary Statements : Prevention:

Obtain special instructions before use. Do not handle until all safety precautions

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have been read and understood. 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 precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection. Use personal protective equipment as required.

#### Response:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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. IF exposed or concerned: Get medical advice/attention. Do NOT induce vomiting. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

# Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

0 4 O A I

## Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
Hydrotreated Heavy Naphtha	64742-48-9	30 - 60
Isopropanol	67-63-0	5 - 10
Ethylbenzene	100-41-4	5 - 10
Heavy Aromatic Naphtha	64742-94-5	1 - 5
Xylene	1330-20-7	1 - 5
Naphthalene	91-20-3	1 - 5
Toluene	108-88-3	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.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms

occur.

If swallowed : Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Aspiration hazard if swallowed - can enter lungs and cause damage.

Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms

occur.

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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

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

Decomposition products may include the following materials: Carbon oxides

nitrogen oxides (NOx) Sulphur 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. 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a

waterway. Do not flush into surface water or sanitary sewer system.

# Section: 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes. Open drum carefully as content may be under

pressure. Take necessary action to avoid static electricity discharge (which

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might cause ignition of organic vapours). Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. 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.

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

and/or industry experience: HDPE (high density polyethylene), Carbon Steel C1018, Stainless Steel 304, Stainless Steel 316L, FEP (encapsulated),

Fluoroelastomer

Unsuitable material : The following compatibility data is suggested based on similar product data

and/or industry experience: Neoprene, MDPE (medium density polyethylene),

Nitrile, EPDM, Perfluoroelastomer

# Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Hydrotreated Heavy Naphtha	64742-48-9	TWA	500 ppm 2,000 mg/m3	OSHA Z1
Isopropanol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		STEL	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z1
Ethylbenzene	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		STEL	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z1
Heavy Aromatic Naphtha	64742-94-5	TWA	500 ppm 2,000 mg/m3	OSHA Z1
		TWA	200 mg/m3	ACGIH
Naphthalene	91-20-3	TWA	10 ppm	ACGIH
		TWA	10 ppm 50 mg/m3	NIOSH REL
		STEL	15 ppm 75 mg/m3	NIOSH REL
		TWA	10 ppm 50 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

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below occupational exposure standards.

## Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Wear protective gloves.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Wear suitable 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.

# Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : dark amber

Odour : hydrocarbon-like

Flash point : 27 °C

Method: ASTM D 93, Pensky-Martens closed cup

pH : no data available

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling

Flammability (solid, gas)

range

: no data available

: no data available

Evaporation rate : no data available

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : 61 mm Hg (37.8 °C)

Relative vapour density : no data available

Relative density : 0.95 (16 °C)

Density : 7.89 lb/gal

Water solubility : insoluble

Solubility in other solvents : no data available

Partition coefficient: n-

octanol/water

: no data available

Auto-ignition temperature : no data available

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Thermal decomposition

temperature

: no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : 16.3 mm2/s (40 °C)

Method: ASTM D 445

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 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

Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

#### Section: 11. TOXICOLOGICAL INFORMATION

exposure

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

# **Potential Health Effects**

Eyes : Causes serious eye irritation.

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

: May be fatal if swallowed and enters airways. Ingestion

Inhalation : May cause respiratory tract irritation. May cause nose, throat,

and lung irritation. Inhalation may cause central nervous

system effects.

Chronic Exposure : May cause cancer. Suspected of damaging fertility or the

unborn child. May cause genetic defects.

#### **Experience with human exposure**

Eye contact : Redness, Pain, Irritation

Skin contact : No symptoms known or expected.

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Ingestion : Vomiting

Inhalation : Respiratory irritation, Cough, Dizziness, Drowsiness

**Toxicity** 

**Product** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l

Exposure time: 4 h

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Skin corrosion/irritation : no data available

Serious eye damage/eye

irritation

: Result: Mild eye irritation

Respiratory or skin

sensitization

: no data available

Carcinogenicity

IARC Group 2B: Possibly carcinogenic to humans

Ethylbenzene 100-41-4 Naphthalene 91-20-3

OSHA No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP Reasonably anticipated to be a human carcinogen

Naphthalene 91-20-3

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 : The substance or mixture is known to cause human aspiration

toxicity hazards or has to be regarded as if it causes a human

aspiration toxicity hazard.

## Section: 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** 

Environmental Effects : Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

Components

Toxicity to fish : Isopropanol

LC50 Pimephales promelas (fathead minnow): 9,640 mg/l

Exposure time: 96 h

Heavy Aromatic Naphtha

LC50 Oncorhynchus mykiss (rainbow trout): 3.5 mg/l

Exposure time: 96 h

Components

Toxicity to daphnia and other

aquatic invertebrates

: Isopropanol

LC50 Daphnia magna (Water flea): > 10,000 mg/l

Ethylbenzene

EC50 Daphnia: 1.81 mg/l Exposure time: 48 h

Components

Toxicity to algae : Toluene

EC50 Chlamydomonas angulosa: 134 mg/l

Exposure time: 3 h

Components

Toxicity to bacteria : Isopropanol

1,050 mg/l

Toluene

EC50 Nitrosomonas Sp.: 84 mg/l

Exposure time: 24 h

Components

Toxicity to fish (Chronic

toxicity)

: Toluene

NOEC: 1.39 mg/l Exposure time: 40 d

Species: Coho Salmon

Components

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: Toluene

NOEC: 0.74 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia

Persistence and degradability

no data available

**Mobility** 

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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 : 10 - 30% Water : 30 - 50% Soil : 30 - 50%

The portion in water is expected to float on the surface.

#### Bioaccumulative potential

Component substances have a potential 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: : D001, D018

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)

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.

Proper shipping name : FLAMMABLE LIQUID, N.O.S. Technical name(s) : Isopropanol, Ethylbenzene

UN/ID No. : UN 1993

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Transport hazard class(es) : 3 : 111 Packing group

Reportable Quantity (per

package)

**RQ** Component : Xylene

## Air transport (IATA)

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.

Proper shipping name : FLAMMABLE LIQUID, N.O.S. Technical name(s) : Isopropanol, Ethylbenzene

UN/ID No. : UN 1993

Transport hazard class(es) : 3 : 111 Packing group

Reportable Quantity (per

package)

: 3,937 lbs

: 3,937 lbs

**RQ** Component : Xylene

## Sea transport (IMDG/IMO)

Proper shipping name : FLAMMABLE LIQUID, N.O.S. Technical name(s) : Isopropanol, Ethylbenzene

UN/ID No. : UN 1993

Transport hazard class(es) : 3 : 111 Packing group

#### **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)
Xylene	1330-20-7	100	3937

## 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

Chronic 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:

Ethylbenzene 100-41-4 5 - 10 % **Xylene** 1 - 5 % 1330-20-7 Naphthalene 91-20-3 1 - 5 %

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#### California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

Ethylbenzene 100-41-4 Naphthalene 91-20-3

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Toluene 108-88-3

## 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).

#### **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**

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

## **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.

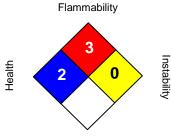
# **PHILIPPINES**

This product contains substance(s) which are not in compliance with the Republic Act 6969 (RA 6969) and may require additional review.

# **Section: 16. OTHER INFORMATION**

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# NFPA:



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** : 10/27/2015

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.