NALCO Champion

An Ecolab Company

## EC6297A

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : EC6297A

Other means of identification : Not applicable.

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 : 06/18/2015

#### **Section: 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Flammable liquids : Category 4
Acute toxicity (Oral) : Category 2
Acute toxicity (Inhalation) : Category 4
Acute toxicity (Dermal) : Category 4
Serious eye damage : Category 1
Skin sensitization : Category 1
Reproductive toxicity : Category 2

### **GHS Label element**

Hazard pictograms :









Signal Word : Danger

Hazard Statements : Combustible liquid

Fatal if swallowed.

Harmful in contact with skin or if inhaled May cause an allergic skin reaction.

Causes serious eye damage.

Suspected of damaging fertility or the unborn child.

Precautionary Statements : **Prevention:** 

Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/

face protection. Wear respiratory protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.IF ON SKIN: Wash with plenty of

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soap and water.IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.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 doctor/

physician.

IF exposed or concerned: Get medical advice/attention.

Other hazards : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

Tetrakis(hydroxymethyl) phosphonium sulfate 55566-30-8 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.

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

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

: None known.

Specific hazards during

firefighting

: Fire Hazard

Keep away from heat and sources of ignition. Flash back possible over considerable distance.

Hazardous combustion : Decomposition products may include the following materials:

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products Carbon oxides Sulphur oxides Oxides of phosphorus

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. 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). 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 : 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 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 away from heat and sources of ignition. 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: Nylon, Polyethylene, Stainless Steel 304, Stainless Steel 316L, Hastelloy C-276, Plexiglass, PVC, Buna-N, HDPE (high density polyethylene), Natural rubber, Polyurethane, Ethylene propylene, Polypropylene,

EPDM, FEP (encapsulated), MDPE, Nitrile, PTFE,

Perfluoroelastomer, Polytetrafluoroethylene/polypropylene

copolymer

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

product data and/or industry experience: Copper, Brass, Neoprene, Aluminum, Mild steel, Carbon Steel C1018, Surface-modified HDPE (high density polyethylene), Chlorosulfonated polyethylene rubber,

Fluoroelastomer

### Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Tetrakis(hydroxymethyl) phosphonium sulfate	55566-30-8	TWA	2 mg/m3	ACGIH

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

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 : Wear suitable protective clothing.

: When workers are facing concentrations above the exposure limit Respiratory protection

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 : colourless Odour : Characteristic

Flash point : 90.0 °C

pΗ : 3.2, 100 %

Odour Threshold : no data available

Melting point/freezing point : FREEZING POINT: -43 °C

Initial boiling point and boiling : no data available

range

: no data available Evaporation rate Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available Vapour pressure : 48.0 mm Hg Relative vapour density : no data available

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Relative density : 1.164 (20 °C)

Density : 9.7 lb/gal

Water solubility : no data available
Solubility in other solvents : no data available
Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature

Thermal decomposition

temperature

: no data available: no data available

Viscosity, dynamic : no data available Viscosity, kinematic : 21 mm2/s (25 °C)

VOC : 35.0 % Calculation method

# 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 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.

Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may

generate heat, fires, explosions and/or toxic vapors.

Strong acids Reducing agents

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

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

exposure

**Potential Health Effects** 

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. May cause allergic skin reaction.

Ingestion : Fatal if swallowed. Harmful if swallowed.

Inhalation : Fatal if inhaled. Harmful if inhaled.

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Chronic Exposure : Suspected of damaging fertility or the unborn child.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Irritation, Allergic reactions

Ingestion : No information available.

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product** 

Acute oral toxicity : no data available

Acute inhalation toxicity : LC50 rat: 0.591 mg/l

Exposure time: 4 hrs

Test substance: 75% Active Ingredient

Acute dermal toxicity : no data available

Skin corrosion/irritation : Method: OECD 404

Test substance:75% Active Ingredient

Serious eye damage/eye

irritation

: Species: rabbit

Method: OECD Test Guideline 405

Respiratory or skin

sensitization

: no data available

Carcinogenicity : no data available

Reproductive effects : no data available

Germ cell mutagenicity : Not mutagenic in Ames Test. Clastogenic in an invitro assay

for chromosomal abberations in Chinese Hamster Ovary cells.

Negative in cultured rat hepatocytes unscheduled DNA

synthesis.

Teratogenicity : This material is not a teratogen, at low dose levels of 6 or 18

mg/kg/day for rabbits and 15 or 30 mg/kg/day for rats. At a high dose level of 60 mg/kg/day, both species showed fetal

toxicity.

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Components

Acute oral toxicity : Tetrakis(hydroxymethyl) phosphonium sulfate

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LD50 rat: 431 mg/kg

Components

Acute dermal toxicity : Tetrakis(hydroxymethyl) phosphonium sulfate

LD50 rat: > 1,500 mg/kg

#### Section: 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Environmental Effects : Toxic to aquatic life with long lasting effects.

**Product** 

Toxicity to fish : LC50 Cyprinodon variegatus (sheepshead minnow): 72 mg/l

Exposure time: 96 hrs

Test substance: 75% Active Ingredient

LC50 Oncorhynchus mykiss (rainbow trout): 119 mg/l

Exposure time: 96 hrs

Test substance: 75% Active Ingredient

LC50 Lepomis macrochirus (Bluegill sunfish): 93 mg/l

Exposure time: 96 hrs

Test substance: 75% Active Ingredient

LC50 Plaice: 86 mg/l Exposure time: 96 hrs

Test substance: 75% Active Ingredient

Toxicity to daphnia and other

aquatic invertebrates

: LC50 Mysid Shrimp (Mysidopsis bahia): 7.30 mg/l

Exposure time: 96 hrs

Test substance: 75% Active Ingredient

EC50 Daphnia magna (Water flea): 19.4 mg/l

Exposure time: 48 hrs

Test substance: 75% Active Ingredient

Toxicity to algae : LC50 Green Algae (Pseudokirchneriella subcapitata,

previously Selenastrum capricornutum): 0.20 mg/l

Exposure time: 96 hrs

Test substance: 75% Active Ingredient

Toxicity to bacteria : EC50 Bacteria: 24 mg/l

Exposure time: 3 hrs

Test substance: 75% Active Ingredient

### Persistence and degradability

The organic portion of this preparation is expected to be readily 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

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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

This preparation or material is not expected to bioaccumulate.

#### Other information

no data available

#### Section: 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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

Technical name(s) : TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE

UN/ID No. : UN 2810

Transport hazard class(es) : 6.1
Packing group : III

#### Air transport (IATA)

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

Technical name(s) : TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE

UN/ID No. : UN 2810

Transport hazard class(es) : 6.1 Packing group : III

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#### Sea transport (IMDG/IMO)

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

Technical name(s) : TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE

UN/ID No. : UN 2810

Transport hazard class(es) : 6.1 Packing group : III

### **Section: 15. REGULATORY INFORMATION**

**EPA Reg. No.** : 33677-6-68708

**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 Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

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)

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

# CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

#### **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).

# **EUROPE**

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

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#### **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)

## **NEW ZEALAND**

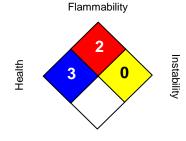
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

#### **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**

#### NFPA:



Special hazard.

#### HMIS III:

HEALTH	3*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

Revision Date : 06/18/2015

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.

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