# NALCO An Ecolab Company

## **SAFETY DATA SHEET**

**NALCO® 8140** 

#### **SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : NALCO® 8140

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 Company

1601 W. Diehl Road

Naperville, Illinois 60563-1198

USA

TEL: (630)305-1000

Emergency telephone

number

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

Issuing date : 06/27/2014

#### **SECTION 2. HAZARDS IDENTIFICATION**

## **Emergency Overview**

#### WARNING

Irritating to eyes. May cause skin irritation. May be harmful if swallowed.

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Use a mild soap if available.

Wear chemical splash goggles. Wear suitable protective clothing.

Not flammable or combustible.

#### **Potential Health Effects**

Eyes : Causes serious eye damage.

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

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

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

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name CAS-No. Concentration: (%)

Aluminum soluble salt Proprietary 30 - 60 Aluminum Chloride Hydroxide Sulphate 39290-78-3 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 with soap and plenty of water. Get medical attention if

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symptoms occur.

If swallowed : Rinse mouth. Get medical attention if symptoms occur.

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

Special protective equipment

for firefighters

: Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

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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 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.

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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: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is

tested prior to use.

Unsuitable material : not determined

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Components with workplace control parameters

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

Face-shield

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 : 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. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

#### **HUMAN EXPOSURE CHARACTERIZATION:**

Based on our recommended product application and personal protective equipment, the potential human exposure is: Low

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Liquid

Colour : Colorless Hazy

Odour : Slight
Flash point : > 93.3 °C

pH : 2.1 - 2.5, 100 %

Odour Threshold : no data available

Melting point/freezing point : no data available

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Initial boiling point and boiling : no data available

Flammability (solid, gas)

range

: no data available

Evaporation rate : no data available

: no data available Upper explosion limit Lower explosion limit : no data available

Vapour pressure : no data available Relative vapour density : no data available

Relative density : 1.2 (4.0 °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 : Carbon oxides Thermal decomposition : no data available Viscosity, dynamic Viscosity, kinematic : 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 : Extremes of temperature

Incompatible materials : Bases

> 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 reactive metals (e.g. aluminum) may result in the

generation of flammable hydrogen gas.

Hazardous decomposition

products

: HCI

Oxides of sulfur Carbon oxides

# **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

## **Potential Health Effects**

Eyes : Causes serious eye damage.

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

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

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, Corrosion

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Toxicity** 

**Product** 

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

Acute toxicity estimate : > 5,000 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

## **HUMAN HAZARD CHARACTERIZATION**

Based on our hazard characterization, the potential human hazard is: Moderate

## **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

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**Environmental Effects** : Very toxic to aquatic life with long lasting effects.

**Product** 

Toxicity to fish : LC50 Rainbow Trout: 4.8 mg/l

Exposure time: 96 h

Test substance: Product tested in clean water

aquatic invertebrates

Toxicity to daphnia and other : LC50 Ceriodaphnia dubia: 3.2 mg/l

Exposure time: 48 h

Test substance: Product tested in clean water

Toxicity to algae : no data available

Components

Toxicity to algae : Aluminum soluble salt

LC50: 14 mg/l Exposure time: 72 h

Aluminum Chloride Hydroxide Sulphate

LC50: 14 mg/l Exposure time: 72 h

#### Persistence and degradability

The organic portion of this preparation is expected to be poorly 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 : 10 - 30% Soil : 30 - 50%

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

#### ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

Based on our hazard characterization, the potential environmental hazard is: Moderate

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Low

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#### **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

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 : CORROSIVE LIQUID, N.O.S.

Technical name(s) : ALUMINUM CHLORIDE HYDROXIDE SULPHATE

UN/ID No. : UN 1760

Transport hazard class(es) : 8
Packing group : III

Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, N.O.S.

Technical name(s) : ALUMINUM CHLORIDE HYDROXIDE SULPHATE

UN/ID No. : UN 1760

Transport hazard class(es) : 8
Packing group : III

Sea Transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, N.O.S.

Technical name(s) : ALUMINUM CHLORIDE HYDROXIDE SULPHATE

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**

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

#### 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 Health Hazard

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

requirements of SARA Title III, Section 302.

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.

FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act:

When use situations necessitate compliance with FDA regulations, this product is acceptable under: 21 CFR 176.170 Components of paper and paperboard in contact with aqueous and fatty foods and 21 CFR 176.180 Components of paper and paperboard in contact with dry foods.

For use: 1) as a retention aid employed prior to the sheet-forming operation in the manufacture of paper and paperboard at a level not to exceed 1% by weight of the finished paper and paperboard, and 2) at the size press at a level not to exceed 0.017% by weight of the finished paper and paperboard (expressed as polymer). Product must be used at a pH above 5.5 to retain its FDA status.

#### **NSF INTERNATIONAL:**

This product has received NSF/International certification under NSF/ANSI Standard 60 in the coagulation and flocculation category. The official name is "Polyaluminum Chloride." Maximum product application dosage is : 250 mg/l.

#### INTERNATIONAL CHEMICAL CONTROL LAWS:

#### TOXIC SUBSTANCES CONTROL ACT (TSCA)

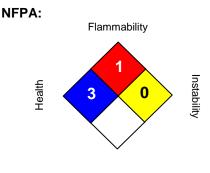
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

# CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

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

# **SECTION 16. OTHER INFORMATION**

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Special hazard.

#### HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

\* The human risk is: Low

\* The environmental risk is: Low

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

Revision Date : 06/27/2014

Version Number : 1.7

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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