NALCO Water An Ecolab Company

SAFETY DATA SHEET

NALCO® 6198

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 6198

Other means of identification : Not applicable.

Recommended use : pH CONTROL

Restrictions on use : Refer to available product literature or ask your local Sales Representative for

restrictions on use and dose limits.

Company : ECOLAB PTE LTD

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Emergency telephone

number

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Issuing date : 18.10.2017

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation Serious eye damage/eye

irritation

Category 1
Category 1

GHS Label element

Hazard pictograms



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

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

Disposal:

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

Other hazards : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

NALCO® 6198

Chemical Name CAS-No. Concentration: (%)

Sulfuric Acid 7664-93-9 60 - 100

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.

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

Not flammable or combustible.

Hazardous combustion

products

Decomposition products may include the following materials: Sulphur 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.

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.

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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. Do not mix with bleach or other chlorinated products –

will cause chlorine gas.

Conditions for safe storage : Keep away from strong bases. Keep out of reach of children. Keep container

tightly closed. Store in suitable labelled 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

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sulfuric Acid	7664-93-9	PEL (long term)	1 mg/m3	SG PEL
		PEL (short term)	3 mg/m3	SG PEL
Sulfuric Acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

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:

Butyl rubber Neoprene gloves

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

degradation or chemical breakthrough.

Skin protection : Wear chemical resistant apron, chemical splash goggles, impervious gloves and

boots.

A full slicker suit is recommended if gross exposure is possible.

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

NALCO® 6198

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 : Acidic

Flash point : does not flash pH : 0.3,(5 %)

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling : no data available

range

Evaporation rate no data available Flammability (solid, gas) no data available Upper explosion limit no data available no data available Lower explosion limit Vapour pressure no data available Relative vapour density no data available Relative density 1.5, (16.0 °C), Density no data available Water solubility completely soluble Solubility in other solvents no data available Partition coefficient: nno data available

Auto-ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Molecular weight : no data available
VOC : 0 %

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

octanol/water

: Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Conditions to avoid : None known.

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

NALCO® 6198

toxic vapors.

Gives off hydrogen by reaction with metals.

Hazardous decomposition

products

Decomposition products may include the following materials:

Sulphur 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 Causes severe skin burns.

Ingestion Causes digestive tract burns.

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 Redness, Pain, Corrosion

Ingestion Corrosion, Abdominal pain

Inhalation No symptoms known or expected.

Toxicity

Product

no data available Acute oral toxicity Acute inhalation toxicity no data available Acute dermal toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye no data available irritation

Respiratory or skin

sensitization

no data available

No component of this product present at levels greater than or equal to 0.1% is Carcinogenicity

identified as probable, possible or confirmed human carcinogen by IARC.

No reproductive toxic effects expected. Reproductive effects

Germ cell mutagenicity Contains no ingredient listed as a mutagen

Teratogenicity no data available STOT - single exposure no data available STOT - repeated exposure no data available

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Aspiration toxicity No aspiration toxicity classification

Human Hazard Characterization

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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Harmful to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other : no data available

aquatic invertebrates

Toxicity to algae : no data available

Components

Toxicity to fish : Sulfuric Acid

> LC50: 22 mg/l Exposure time: 96 h

Persistence and degradability

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

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.

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: Low

Section: 13. DISPOSAL CONSIDERATIONS

NALCO® 6198

Disposal methods : 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

UN/ID No. : UN 1830

Proper shipping name : SULFURIC ACID WITH MORE THAN 51% ACID

Technical name(s) : Sulfuric Acid

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

Air transport (IATA)

UN/ID No. : UN 1830

Proper shipping name : SULFURIC ACID WITH MORE THAN 51% ACID

Technical name(s) : Sulfuric Acid

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

Sea transport (IMDG/IMO)

UN/ID No. : UN 1830

Proper shipping name : SULFURIC ACID WITH MORE THAN 51% ACID

Technical name(s) : Sulfuric Acid

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

Special precautions for user : No special precautions required.

Section: 15. REGULATORY INFORMATION

APPLICABLE REGULATIONS, SINGAPORE

Chemical Weapons Prohibition Act Environmental Protection and Management Act Hazardous Waste Act Misuse of Drugs Act Strategic Goods Act

ENVIRONMENTAL POLLUTION CONTROL ACT :Importer of this product to Singapore requires License to Import, Store and Sell this Hazardous Substances.

Regulated substance:

Sulfuric Acid

Fire Safety (Petroleum and Flammable Materials) Regulations

Not applicable.

NALCO® 6198

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 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.

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

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).

Section: 16. OTHER INFORMATION

Revision Date : 18.10.2017

Version Number : 1.1

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.