

NALCO® 3935

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 3935

Other means of identification : Not applicable

Recommended use : MICROORGANISM CONTROL CHEMICAL

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 : 29.11.2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Serious eye damage/eye :

irritation

Category 1Category 1

Acute aquatic toxicity : Category 1
Corrosive to metals : Category 1

GHS Label element

Hazard pictograms





Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Very toxic to aquatic life. May be corrosive to metals.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep only in original container.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.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. Wash contaminated clothing before reuse.Collect spillage.Absorb spillage to prevent material damage.

Storage:

Store locked up. Store in corrosive resistant container with a resistant inner

liner.

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Other hazards : Contact with acids liberates toxic gas.

Mixing this product with acid or ammonia releases chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

Sodium Hypochlorite 7681-52-9 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 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.

Special protective equipment:

for firefighters

In case of fire, wear a full face positive-pressure self contained breathing

apparatus and protective suit.

Specific extinguishing

methods

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water

must be disposed of in accordance with local regulations.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Ensure adequate ventilation. Keep people away from and upwind of spill/leak.

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protective equipment and emergency procedures

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

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. Mixing this product with acid or ammonia releases

chlorine gas.

Conditions for safe storage : 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: HDPE (high density polyethylene), Polypropylene,

PVC, Polyvinylidene difluoride, PTFE, FEP (encapsulated), Neoprene,

Fluoroelastomer, Perfluoroelastomer

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

and/or industry experience: Mild steel, Stainless Steel 304, Stainless Steel

316L, EPDM, Nitrile, Plasite 7122

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Biological occupational

exposure limits

: Not applicable

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:

Wear protective gloves.

Laminate film

Nitrile

Unsupported neoprene

PVC

Natural rubber

Neoprene/natural rubber blend

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

degradation or chemical breakthrough.

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Skin protection : Personal protective equipment comprising: suitable protective gloves, safety

goggles and protective clothing

Chemical resistant apron

Respiratory protection : In event of emergency or planned entry into unknown concentrations a positive

pressure, full-facepiece SCBA should be used.

If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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. 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 : light green
Odour : Chlorine

Flash point : does not flash pH : > 12.5,(1 %)

Odour Threshold : no data available

Melting point/freezing point : no data available

Initial boiling point and boiling:

range

100.0 °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 : no data available

Relative vapour density : no data available

Relative density : 1.18 - 1.29, (20.0 °C).

Density : no data available

Water solubility : completely soluble

Solubility in other solvents : no data available

Partition coefficient: n- : no data available

octanol/water

nt: n- : no data avallable

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 %

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Section: 10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Mixing this product with acid or ammonia releases chlorine gas.

Conditions to avoid None known.

Incompatible materials Strong acids

Hazardous decomposition

products

Decomposition products may include the following materials:

None known

Section: 11. TOXICOLOGICAL INFORMATION

exposure

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

Potential Health Effects

Eyes Causes serious eye damage.

Causes severe skin burns. Skin

Ingestion Causes digestive tract burns.

Inhalation May cause nose, throat, and lung irritation.

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

Experience with human exposure

Redness, Pain, Corrosion Eye contact

Skin contact Redness, Pain, Corrosion

Ingestion Corrosion, Abdominal pain

Inhalation Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity no data available no data available Acute inhalation toxicity 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

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

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

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Reproductive effects : No toxicity to reproduction

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

Aspiration toxicity : No aspiration toxicity classification

Components

Acute oral toxicity : Sodium Hypochlorite

LD50 rat: 5,230 mg/kg

Components

Acute dermal toxicity : Sodium Hypochlorite

LD50 rabbit: > 10,000 mg/kg

Human Hazard Characterization

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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other

aquatic invertebrates

: no data available

Toxicity to algae : no data available

Components

Toxicity to fish : Sodium Hypochlorite

EC50: 0.14 mg/l Exposure time: 96 h

Components

Toxicity to daphnia and other

aquatic invertebrates

Sodium Hypochlorite EC50: 0.071 mg/l

Exposure time: 48 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

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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: High

Section: 13. DISPOSAL CONSIDERATIONS

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

UN/ID No. : UN 1791

Proper shipping name : HYPOCHLORITE SOLUTION

Technical name(s) : Sodium Hypochlorite

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

Air transport (IATA)

UN/ID No. : UN 1791

Proper shipping name : HYPOCHLORITE SOLUTION

Technical name(s) : Sodium Hypochlorite

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

Sea transport (IMDG/IMO)

UN/ID No. : UN 1791

Proper shipping name : HYPOCHLORITE SOLUTION

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Technical name(s) : Sodium Hypochlorite

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

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

Fire Safety (Petroleum and Flammable Materials) Regulations

Not applicable

INTERNATIONAL CHEMICAL CONTROL LAWS:

Australia. Industrial Chemical (Notification and Assessment) Act

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

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).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA 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.

Taiwan Chemical Substance Inventory

All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

United States TSCA Inventory

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

Canadian Domestic Substances List (DSL)

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

Section: 16. OTHER INFORMATION

Revision Date : 29.11.2019

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Version Number : 1.5A

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.