# An Ecolab Company

# SAFETY DATA SHEET

#### **NALCON® 7678**

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCON® 7678

Other means of identification: Not applicable.

Recommended use PAPERMILL SLIMICIDE

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 : 02/04/2015

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

#### **GHS Classification**

Acute toxicity (Oral) : Category 4 Acute toxicity (Inhalation) : Category 4 Acute toxicity (Dermal) Category 4 Skin corrosion Category 1A

Serious eye damage/eye

irritation

: Category 1

Skin sensitization : Category 1

#### **GHS Label element**

Hazard pictograms





Signal Word : Danger

**Hazard Statements** : Harmful if swallowed, in contact with skin or if inhaled

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

**Precautionary Statements** : Prevention:

> Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye

protection/ face protection. Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if

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you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor/ physician. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.

Storage:

Store locked up. **Disposal:** 

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards : None known.

#### Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

 Chemical Name
 CAS-No.
 Concentration: (%)

 Magnesium Nitrate
 10377-60-3
 1 - 5

 2-Methyl-4-Isothiazolin-3-one
 2682-20-4
 1 - 5

 5-Chloro-2-Methyl-4-Isothiazolin-3-one
 26172-55-4
 1 - 5

 Cupric Nitrate
 3251-23-8
 < 0.1</td>

#### **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.

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.

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Unsuitable extinguishing

media

: None known.

Specific hazards during

firefighting

: Not flammable or combustible.

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) and sulfur (SOx) under

fire conditions.

May evolve HCI under fire conditions.

Not flammable or combustible.

Hazardous combustion

products

: Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) 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 : Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Keep people away from and upwind of spill/leak. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

Environmental precautions

This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Methods and materials for containment and cleaning up

: Clean-up methods - small spillage Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. 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. Flush away traces with water. DEACTIVATION SOLUTION - prepare a fresh solution of 5% sodium bicarbonate and 5% sodium hypochlorite in water (i.e. add 50 grams of sodium bicarbonate per 1 liter of household bleach, seal container then shake well for 1 minute) away from the immediate area of spill. Prepare 10 times the

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where spills may occur. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

## **Section: 7. HANDLING AND STORAGE**

Advice on safe handling : Do not get in eyes, on skin, on clothing. Do not take internally. Use

with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers

are labeled.

Conditions for safe storage : Protect product from freezing. Store in a cool well ventilated area

away from direct sunlight. Store separately from other chemicals. Store the containers tightly closed. Store in suitable labeled containers. Protect from damage. Inspect periodically for

deficiencies such as damage or leaks.

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

product data and/or industry experience: EPDM, Compatibility with

Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., Stainless Steel 316L, PVC,

Buna-N, Polyurethane, Polypropylene, Polyethylene, Chlorosulfonated polyethylene rubber, Fluoroelastomer

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

product data and/or industry experience: Brass, Neoprene, Mild

steel, Epoxy phenolic resin, 100% phenolic resin liner

## 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 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 : Personal protective equipment comprising: suitable protective

gloves, safety goggles and 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. Provide suitable facilities for quick drenching or flushing of the eyes

and body in case of contact or splash hazard.

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# Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Liquid Colour : yellow Odour : Mild

Flash point : does not flash рН : no data available Odour Threshold : no data available Melting point/freezing point : -4 °C, ASTM D-1177

Initial boiling point and boiling

range

: 97.8 °C

: no data available Evaporation rate Flammability (solid, gas) : no data available : no data available Upper explosion limit Lower explosion limit : no data available : 0.1 mm Hg (20.0 °C) Vapour pressure Relative vapour density : No data available.

Relative density : 1.08 (25 °C) ASTM D-1298

Density : 9.1 lb/gal

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

octanol/water

: no data available Auto-ignition temperature Thermal decomposition : no data available

temperature

Viscosity, dynamic : 3 mPa.s (21.67 °C) Method: ASTM D 2983

3 mPa.s (25 °C)

Viscosity, kinematic : no data available

> 1.54 % 16.78 g/l

# Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

VOC

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : Extremes of temperature

Incompatible materials : Oxidizing agents

Reducing agents

Amines

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Mercaptans

Hazardous decomposition

products

: Decomposition products may include the following materials:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

## Section: 11. TOXICOLOGICAL INFORMATION

exposure

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

#### **Potential Health Effects**

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. Causes severe skin burns. May

cause allergic skin reaction.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : Harmful if inhaled. May cause nose, throat, and lung irritation.

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, Irritation, Corrosion, Allergic reactions

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

**Toxicity** 

**Product** 

Acute oral toxicity : LD50 rat: 1,600 mg/kg

Test substance: Product (estimated)

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

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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

Components

Acute inhalation toxicity : 2-Methyl-4-Isothiazolin-3-one

LC50 rat: 0.33 mg/l Exposure time: 4 h

5-Chloro-2-Methyl-4-Isothiazolin-3-one

LC50 rat: 0.33 mg/l Exposure time: 4 h

Components

Acute dermal toxicity : Magnesium Nitrate

LD50 rat: > 5,000 mg/kg

2-Methyl-4-Isothiazolin-3-one LD50 rabbit: 200 mg/kg

5-Chloro-2-Methyl-4-Isothiazolin-3-one

LD50 rabbit: 200 mg/kg

# Section: 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Environmental Effects : Very toxic to aquatic life.

**Product** 

Toxicity to fish : LC50 Pimephales promelas (fathead minnow): 0.120 mg/l

Exposure time: 144 hrs

Test substance: Active Substance

LC50 Oncorhynchus mykiss (rainbow trout): 0.300 mg/l

Exposure time: 96 hrs

Test substance: Active Substance

LC50 Cyprinodon variegatus (sheepshead minnow): 12 mg/l

Exposure time: 96 hrs

Test substance: Product (estimated)

LC50 Lepomis macrochirus (Bluegill sunfish): 7 mg/l

Exposure time: 96 hrs

Test substance: Product (estimated)

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LC50 Pimephales promelas (fathead minnow): 4.31 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Oncorhynchus mykiss (rainbow trout): 1.98 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Inland Silverside: 6 mg/l

Exposure time: 96 hrs

Test substance: Product (estimated)

NOEC Pimephales promelas (fathead minnow): 2.5 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Oncorhynchus mykiss (rainbow trout): 0.625 mg/l

Exposure time: 96 hrs Test substance: Product

Toxicity to daphnia and other aquatic invertebrates

: LC50 Blue Mussel: 1.9 mg/l Exposure time: 96 hrs

Test substance: Active Substance

LC50 Mysid Shrimp (Mysidopsis bahia): 7 mg/l

Exposure time: 96 hrs

Test substance: Product (estimated)

LC50 Ceriodaphnia dubia: 1.34 mg/l

Exposure time: 48 hrs Test substance: Product

LC50 Daphnia magna (Water flea): 3.2 - 4.4 mg/l

Exposure time: 48 hrs

Test substance: Product (estimated)

NOEC Blue Mussel: 0.40 mg/l

Exposure time: 96 hrs

Test substance: Active Substance

NOEC Ceriodaphnia dubia: 0.625 mg/l

Exposure time: 48 hrs Test substance: Product

Toxicity to algae : EC50 Green Algae (Pseudokirchneriella subcapitata,

previously Selenastrum capricornutum): 0.018 mg/l

Exposure time: 72 h

Test substance: Active Substance

EC50 Marine Algae (Skeletonema costatum): 0.003 mg/l

Exposure time: 72 h

Test substance: Active Substance

#### Persistence and degradability

The organic content of the product is biological degradable.

Chemical Oxygen Demand (COD): 40,000 mg/l

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Biochemical Oxygen Demand (BOD): This product is a biocide and, as such, requires the use of low product concentrations to complete the BOD assay. These low concentrations increase the assay's variability and result in the data being unreliable.

## **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:

: <5% Air 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

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.

Disposal methods

: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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)

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The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

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

Technical name(s) : ISOTHIAZOLINONE MICROBIOCIDE

UN/ID No. : UN 3265

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

Reportable Quantity (per : 35,000 lbs

package)

RQ Component : CUPRIC NITRATE

#### Air transport (IATA)

The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

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

Technical name(s) : ISOTHIAZOLINONE MICROBIOCIDE

UN/ID No. : UN 3265

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

Reportable Quantity (per : 35,000 lbs

package)

RQ Component : CUPRIC NITRATE

# Sea transport (IMDG/IMO)

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

Technical name(s) : ISOTHIAZOLINONE MICROBIOCIDE

UN/ID No. : UN 3265

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

\*Marine pollutant : ISOTHIAZOLINONE MICROBIOCIDE

\*Note: This product is regulated as a Marine Pollutant when shipped by Rail, Highway (in bulk quantities), or Air (if no other hazard class applies), and when shipped by water in all quantities.

## Section: 15. REGULATORY INFORMATION

**EPA Reg. No.** : 1706-170

# **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Cupric Nitrate	3251-23-8	100	35014

#### 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

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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)

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

#### CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

#### **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.

#### **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)

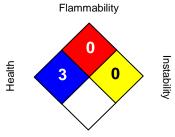
#### **PHILIPPINES**

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**

# **NALCON® 7678**

## NFPA:



Special hazard.

## HMIS III:

HEALTH	3*
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight, 2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

Revision Date : 02/04/2015

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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