# NALCO An Ecolab Company

# **SAFETY DATA SHEET**

# **ACTI-BROM® 1338**

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

Product name : ACTI-BROM® 1338

Other means of identification : Not applicable.

Recommended use : CHLORINE ENHANCER, BIODISPERSANT

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**

#### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS Label element**

Precautionary Statements : **Prevention:** 

Wash hands thoroughly after handling.

Response:

Specific measures: consult MSDS Section 4.

Storage:

Store in accordance with local regulations.

Other hazards : None known.

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

No hazardous ingredients

# **SECTION 4. FIRST AID MEASURES**

In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.

In case of skin contact : Wash off with soap and plenty of water. Get medical attention if

symptoms occur.

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

If inhaled : 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.

#### ACTI-BROM® 1338

Notes to physician : No specific measures identified.

See toxicological information (Section 11)

#### **SECTION 5. FIREFIGHTING MEASURES**

: Use extinguishing measures that are appropriate to local Suitable extinguishing media

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: None known.

Specific hazards during

firefighting

: Not flammable or combustible.

Hazardous combustion

products

: Heating can release hazardous gases.

for firefighters

Special protective equipment : 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

: Refer to protective measures listed in sections 7 and 8.

Environmental precautions : No special environmental precautions required.

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 : For personal protection see section 8. Wash hands after handling.

Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in

suitable labeled containers.

Suitable material : Keep in properly labelled containers.

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

> product data and/or industry experience: Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

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

#### Components with workplace control parameters

## ACTI-BROM® 1338

Contains no substances with occupational exposure limit values.

Engineering measures : Good general ventilation should be sufficient to control worker

exposure to airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses

: Wear protective gloves. Hand protection

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.

: Wash hands before breaks and immediately after handling the Hygiene measures

product.

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

**Appearance** : Liquid Colour Colorless Odour : None

Flash point does not flash 4.0 - 9.0, 100 % pΗ Method: ASTM E 70

Odour Threshold : no data available

Melting point/freezing point : FREEZING POINT: -25 °C, ASTM D-1177

Initial boiling point and boiling : 110 °C

range

Evaporation rate : no data available Flammability (solid, gas) : no data available Upper explosion limit : no data available Lower explosion limit : no data available : 7.6 mm Hg (20 °C) Vapour pressure Relative vapour density : no data available

Relative density : 1.43 - 1.49 (25 °C) ASTM D-1298

Density : 1.44 - 1.49 g/cm3 Water solubility : completely soluble Solubility in other solvents : no data available Partition coefficient: n-: no data available

octanol/water

Auto-ignition temperature : no data available

Thermal decomposition : Heating can release hazardous gases.

# ACTI-BROM® 1338

Viscosity, dynamic : 5 mPa.s (22 °C)

Method: ASTM D 2983

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 : None known.

Incompatible materials : Contact with strong acids (e.g. sulfuric, phosphoric, nitric,

hydrochloric, chromic, sulfonic) 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.

Reducing agents

Hazardous decomposition

products

: Hydrogen bromide

## **SECTION 11. TOXICOLOGICAL INFORMATION**

exposure

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

#### **Potential Health Effects**

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

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.

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

# Experience with human exposure

Eye contact : No symptoms known or expected.

Skin contact : No symptoms known or expected.

Ingestion : No symptoms known or expected.

Inhalation : No symptoms known or expected.

**Toxicity** 

#### **Product**

# **ACTI-BROM® 1338**

Acute oral toxicity : LD50 rat: > 5,000 mg/kg

Test substance: Similar Product

Acute inhalation toxicity : no data available

Acute dermal toxicity : rabbit: > 2,000 mg/kg

Test substance: Similar Product

Skin corrosion/irritation : Species: Rabbit

Result: 0.4

Method: Draize Test

Test substance:Similar Product

Serious eye damage/eye

irritation

: Result: 10.8

Method: Draize Test

Test substance: Similar Product

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

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

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

**Product** 

Toxicity to fish : LC50 Bluegill Sunfish: > 1,000 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Guppy: 538 mg/l Exposure time: 96 hrs Test substance: Product

LC50 Rainbow Trout: > 1,000 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Fathead Minnow: > 1,000 mg/l

Exposure time: 96 hrs

# **ACTI-BROM® 1338**

Test substance: Product

LC50 Inland Silverside: > 5,000.000 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Bluegill Sunfish: 1.24 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Rainbow Trout: 0.55 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Fathead Minnow: 0.23 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Sheepshead Minnow: 0.45 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Bluegill Sunfish: 0.52 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Fathead Minnow: 0.097 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Rainbow Trout: 0.23 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

LC50 Sheepshead Minnow: 0.19 mg/l

Exposure time: 96 hrs

Test substance: HOBr (Generated from NaBr)

Toxicity to daphnia and other

aquatic invertebrates

: LC50 Daphnia magna: > 1,000 mg/l

Exposure time: 48 hrs Test substance: Product

LC50 Mysid Shrimp (Mysidopsis bahia): 1,827.000 mg/l

Exposure time: 96 hrs Test substance: Product

Toxicity to algae : no data available

## Persistence and degradability

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

Total Organic Carbon (TOC): 2,000 mg/l

Chemical Oxygen Demand (COD): 53,000 mg/l

## **ACTI-BROM® 1338**

Biochemical Oxygen Demand (BOD): This material is an oxidizing biocide and is not expected to persist in the environment.

#### **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

# **SECTION 13. DISPOSAL CONSIDERATIONS**

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

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 : PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

Air transport (IATA)

Proper shipping name : PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

## **ACTI-BROM® 1338**

#### Sea Transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING

**TRANSPORTATION** 

## **SECTION 15. REGULATORY INFORMATION**

**EPA Reg. No.** : 1706-168

**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 : No SARA Hazards

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.

## 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).

#### **AUSTRALIA**

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

# **EUROPE**

The substance(s) in this preparation are included in or exempted from 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)

# **ACTI-BROM® 1338**

#### **NEW ZEALAND**

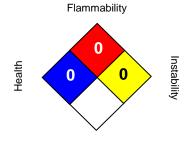
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

#### **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:



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

4 = Extreme, \* = Chronic

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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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