NALCO Water

SAFETY DATA SHEET

NALMET® 1689

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALMET® 1689

Other means of identification : Not applicable.

Recommended use : WATER CLARIFICATION AID

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 : 11/19/2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2B

GHS Label element

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**

Wash skin thoroughly after handling.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name CAS-No. Concentration: (%)

 Sodium Chloride
 7647-14-5
 1 - 5

 Sodium Sulphide
 1313-82-2
 1 - 5

 Sodium Hydroxide
 1310-73-2
 0.1 - 1

Section: 4. FIRST AID MEASURES

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

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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.

Notes to physician : Treat symptomatically.

Most important symptoms and effects, both acute and

and effects, both acute 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

Carbon oxides nitrogen oxides (NOx) Sulphur oxides Hydrogen chloride metal

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 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 noncombustible 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.

Section: 7. HANDLING AND STORAGE

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Advice on safe handling : Wash hands thoroughly after handling. Use only with adequate ventilation.

Conditions for safe storage : Do not store near acids. 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 : Brass, coated steelnot determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1

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

airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses

Hand protection : Wear protective gloves.

Impervious gloves, resistant to chemicals.

Nitrile-rubber, Butyl-Rubber and Neoprene 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 : Use local exhaust ventilation or other engineering controls as necessary to

control airborne mist and vapor.

Where concentrations in air may exceed the limits given in this section or when significant mists, vapors, aerosols are generated, an approved air purifying

respirator equipped with suitable filter cartridges is recommended.

Recommended Filter type:

Combined particulates, ammonia/amines and organic vapour type

In event of emergency or planned entry into unknown concentrations, a positive pressure, full-facepiece SCBA or supplied-air respirator should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : Liquid
Colour : brown
Odour : Sulfurous

Flash point : , Method: ASTM D 93, Pensky-Martens closed cup, does not flash

pH : 13.1,(100 %)
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) : Not applicable.
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 : 1.10 - 1.35, (25 °C),

Density : 9.2 - 11.2 lb/gal
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
Thermal decomposition : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Molecular weight : no data available

VOC : 0 %, 0 g/l, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

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 : May release SO2 or hydrogen sulfide on contact with acids.

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Strong acids

Hazardous decomposition

products

In case of fire, hazardous decomposition products may be produced such as:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Hydrogen chloride metal oxides

Section: 11. TOXICOLOGICAL INFORMATION

exposure

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

Potential Health Effects

Eyes Causes eye irritation.

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 Redness, Irritation

Skin contact No symptoms known or expected.

Ingestion No symptoms known or expected.

Inhalation No symptoms known or expected.

Toxicity

Product

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

no data available Acute inhalation toxicity

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

Skin corrosion/irritation Result: No skin irritation

Test substance: Similar Product

Serious eye damage/eye

irritation

Result: Irritation to eyes, reversing within 7 days

Test substance: Similar Product

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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Toxic to aquatic life.

Product

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout): 74 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Cyprinodon variegatus (sheepshead minnow): > 1,000

mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Oncorhynchus mykiss (rainbow trout): < 40 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Cyprinodon variegatus (sheepshead minnow): 400

mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Pimephales promelas (fathead minnow): 432 mg/l

Exposure time: 96 h Test substance: Product

LC50 Pimephales promelas (fathead minnow): 602 mg/l

Exposure time: 96 h
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates

: LC50 Daphnia magna (Water flea): 73 mg/l

Exposure time: 48 hrs Test substance: Product

EC50 Daphnia magna (Water flea): 18 mg/l

Exposure time: 48 hrs Test substance: Product

NOEC Daphnia magna (Water flea): 5 mg/l

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Exposure time: 48 hrs Test substance: Product

Toxicity to fish (Chronic

toxicity)

: ChV: 85.6 mg/l Exposure time: 7 d

> Species: Fathead Minnow Test substance: Product

> LOEC: 121 mg/l Exposure time: 7 d Species: Fathead Minnow Test substance: Product

NOEC: 60.5 mg/l Exposure time: 7 d

Species: Fathead Minnow Test substance: Product

EC25 / IC25: 27.2 mg/l Exposure time: 7 d Species: Fathead Minnow Test substance: Product

Chronic Toxicity Value: 10.7 mg/l

Exposure time: 7 d

Species: Fathead Minnow Test substance: Product

LOEC: 15.1 mg/l Exposure time: 7 d Species: Fathead Minnow Test substance: Product

NOEC: 7.56 mg/l Exposure time: 7 d Species: Fathead Minnow Test substance: Product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Chronic Toxicity Value: > 4.84 mg/l

Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

LOEC: > 4.84 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

NOEC: 4.84 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

EC25 / IC25: 2.75 mg/l Exposure time: 7 d

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Species: Ceriodaphnia dubia Test substance: Product

Chronic Toxicity Value: 3.42 mg/l

Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

LOEC: 4.84 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

NOEC: 2.42 mg/l Exposure time: 7 d

Species: Ceriodaphnia dubia Test substance: Product

Persistence and degradability

The organic portion of this preparation is expected to be poorly biodegradable.

Chemical Oxygen Demand (COD): 420,000 mg/l

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 : > 90%

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

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated at the time of disposal to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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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 : CAUSTIC ALKALI LIQUID, N.O.S. Technical name(s) : Sodium Sulphide, Sodium Hydroxide

UN/ID No. : UN 1719

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

Reportable Quantity (per : 200,000 lbs

package)

RQ Component : SODIUM HYDROXIDE

Air transport (IATA)

Proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. Technical name(s) : Sodium Sulphide, Sodium Hydroxide

UN/ID No. : UN 1719

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

Reportable Quantity (per : 200,000 lbs

package)

RQ Component : SODIUM HYDROXIDE

Sea transport (IMDG/IMO)

Proper shipping name : CAUSTIC ALKALI LIQUID, N.O.S. Technical name(s) : Sodium Sulphide, Sodium Hydroxide

UN/ID No. : UN 1719

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

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

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

CERCLA Reportable Quantity

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Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Hydroxide	1310-73-2	1000	200000

CERCLA Reportable Quantity

This product does not contain a RQ substance, or this product contains a substance with a RQ, however the calculated RQ exceeds the reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 302 : This material does not contain any components with a section 302

EHS TPQ.

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:

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Canadian Domestic Substances List (DSL)

This product contains substance(s) which are not listed on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

Australia. Industrial Chemical (Notification and Assessment) Act

On the inventory, or in compliance with the inventory

Japan. ENCS - Existing and New Chemical Substances Inventory

On the inventory, or in compliance with the inventory

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.

Korea. Korean Existing Chemicals Inventory (KECI)

On the inventory, or in compliance with the inventory

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

On the inventory, or in compliance with the inventory

China Inventory of Existing Chemical Substances

On the inventory, or in compliance with the inventory

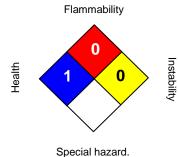
Taiwan Chemical Substance Inventory

On the inventory, or in compliance with the inventory

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Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

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. For additional copies of an SDS visit www.nalco.com and request access.