

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Nalco 71316

Other means of identification : Not applicable.

Recommended use : CATIONIC FLOCCULANT

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 : 04/17/2020

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2B

GHS Label element

Signal Word : Warning

Hazard Statements : Causes eye irritation.
If swallowed a jelly mass may form which in digestion may cause blockage.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Water in contact with the product will cause slippery floor conditions.
Response:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. Do NOT induce vomiting.
Storage:
Mix thoroughly before use. Protect product from freezing.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Hydrotreated Light Distillate (petroleum)	64742-47-8	10 - 30
Oxyalkylated alcohol	Proprietary	1 - 5

Section: 4. FIRST AID MEASURES

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- 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.
- Notes to physician : Treat symptomatically. If swallowed a jelly mass may form which in digestion may cause blockage.
- 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 : Do not use water unless flooding amounts are available.
- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx)
- 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 : Spills of this product are very slippery. 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces

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with water.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Wash hands thoroughly after handling. Use only with adequate ventilation. Stir well prior to use.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Store separately from oxidizers. Protect product from freezing.
- Suitable material : Keep in properly labelled containers.
- Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Hydrotreated Light Distillate (petroleum)	64742-47-8	TWA	500 ppm 2,000 mg/m ³	OSHA Z1
		TWA	200 mg/m ³ (as total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z1
		TWA (Mist)	5 mg/m ³	NIOSH REL
		STEL (Mist)	10 mg/m ³	NIOSH REL

- 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.
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.
- 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.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

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Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Emulsion
Colour	: opaque
Odour	: Hydrocarbon
Flash point	: does not flash
pH	: 4.7
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
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	: 1.0300, (25 °C),
Density	: no data available
Water solubility	: emulsifiable
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	: 300 - 2,000 mPa.s (22 °C)
Viscosity, kinematic	: 736.9 mm ² /s (40 °C)
Molecular weight	: no data available
VOC	: 27.4 %, Calculation method

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	: Extremes of temperature Freezing temperatures.

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- Incompatible materials : Addition of water results in gelling.
Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.
- Hazardous decomposition products : Decomposition products may include the following materials:
Carbon oxides
nitrogen oxides (NOx)

Section: 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

- Eyes : Causes eye irritation.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : If swallowed a jelly mass may form which in digestion may cause blockage.
- 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 oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Acute toxicity estimate: > 5,000 mg/kg
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Acute toxicity estimate: > 5,000 mg/kg
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : Result: Mild eye irritation
- Respiratory or skin sensitization : no data available

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Carcinogenicity

- IARC : 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.
- OSHA : No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

- 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 : Oxyalkylated alcohol
LC50 rat: > 50 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

- Environmental Effects : Toxic to aquatic life.

Product

- Toxicity to fish : LC50 Brachydanio rerio (zebrafish): > 1 - 10 mg/l
Exposure time: 96 h
Test substance: Representative polymer tested in water with DOC
- LC50 Pimephales promelas (fathead minnow): 5.5 mg/l
Exposure time: 96 h
Test substance: Product
- NOEC Pimephales promelas (fathead minnow): 2.5 mg/l
Exposure time: 96 h
Test substance: Product
- Toxicity to daphnia and other aquatic invertebrates : LC50 Ceriodaphnia dubia: 0.71 mg/l
Exposure time: 48 h
Test substance: Product
- NOEC Ceriodaphnia dubia: 0.031 mg/l
Exposure time: 48 h
Test substance: Product

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EC50 Ceriodaphnia dubia: 0.08 mg/l
Exposure time: 48 h
Test substance: Product

NOEC Ceriodaphnia dubia: 0.016 mg/l
Exposure time: 48 h
Test substance: Product

Components

Toxicity to algae : Hydrotreated Light Distillate (petroleum)
EC50 : > 1,000 mg/l
Exposure time: 72 h

Components

Toxicity to bacteria : Hydrotreated Light Distillate (petroleum)
> 1,000 mg/l
Exposure time: 48 h

Persistence and degradability

Total Organic Carbon (TOC) : 240,000 mg/l

Chemical Oxygen Demand (COD): 880,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
	41,000 mg/l	Product

Mobility

no data available

Bioaccumulative potential

no data available

Other information

no data available

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.

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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

Sea transport (IMDG/IMO)

Proper shipping name : PRODUCT IS NOT REGULATED DURING TRANSPORTATION

Section: 15. REGULATORY INFORMATION

TSCA list : Not relevant

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

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 : 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 :

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).

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)

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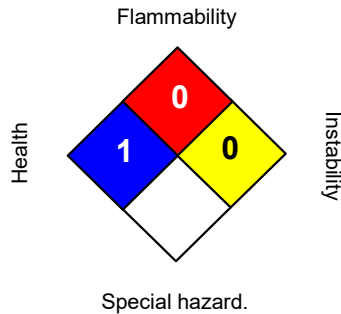
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Australia. Industrial Chemical (Notification and Assessment) Act

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

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

Revision Date : 04/17/2020
Version Number : 1.2
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.



NEW CHEMICAL ADDITIVES REQUEST FORM INSTRUCTIONS

“Chemical additive” means a chemical product (including products of disassociation and degradation, collectively “products”) introduced into a waste stream that is used for cleaning, disinfecting, or maintenance and which may be detected in effluent discharged to waters of the Commonwealth. The term generally excludes chemicals used for the production of goods or chemicals used in the treatment of wastewater.

The Department of Environmental Protection (DEP) maintains a list of chemical additives (“Approved List”) on its website that are approved for general use for industrial operations with NPDES permits (see www.dep.pa.gov/chemicaladditives). If required by the facility’s NPDES permit, an industrial facility may be limited to using those chemical additives on the Approved List. When a chemical additive is not identified on the Approved List and usage is desired, chemical manufacturers or facilities themselves may submit the New Chemical Additives Request Form to request the addition of a chemical additive to the Approved List.

The following provides general instructions on completing the form. **Please note that failure to provide all of the requested information will result in a delay in approving the chemical additive.**

1. Indicate whether the organization that is submitting the form is a permittee or the manufacturer of the chemical additive. If a permittee is submitting the form, identify the permittee name, permit number, permit effective and expiration dates, facility name, and the municipality and county where the facility is located. If a manufacturer is submitting the form, this section may remain blank.
2. Identify the trade name of the chemical additive. This is the name that should be identified on the Material Safety Data Sheet (MSDS).
3. Identify the manufacturer name of the chemical additive.
4. List the intended use(s) of the chemical additive.
5. At a minimum, report the whole product toxicity test result (48-hour LC₅₀ or EC₅₀), in mg/L, for a species in one of the following three genera of the family Daphnidae - Ceriodaphnia sp., Daphnia sp., or Simocephalus sp. All other whole product aquatic toxicity testing data should be reported on a separate sheet or the MSDS.
6. Identify the species tested for the LC₅₀ or EC₅₀ value(s) reported in No. 5 by checking the appropriate box(es).
7. In the table provided, list each of the product ingredients and its Chemical Abstract Services (CAS) number for the chemical additive. Also provide the percent composition and whether the composition reported is by weight or volume. **A complete list of ingredients is required**; permittees should contact the product manufacturer if all ingredients are not listed on the MSDS. If this information is proprietary, please indicate that it should be treated confidentially via cover letter or email.
8. List the analytical method from Pa. Code 25 Chapter 16 (Appendix A, Tables 2A and 2B) or other sources that may be used to determine the effluent concentration of the chemical additive or, if none exists for the chemical additive, then the active ingredient of the additive. If the analytical method is not approved by DEP or EPA, you should attach a copy of the method procedures. If no methods exist according to available information, indicate this on the form.
9. Provide the method detection limit for the analytical method in mg/L.
10. The form must be signed and dated by a responsible official of the organization submitting the request. Also provide the submitter’s phone number and email address in the event DEP needs to contact the submitter for clarification or additional information.

An MSDS form must be attached to the New Chemical Additives Request Form. MSDS forms should contain the minimum requirements of the Occupational Safety and Health Administration's (OSHA's) regulations at 29 CFR 1910.1200(g). In addition, aquatic ecotoxicity information should be identified on the MSDS form or on a separate sheet. If the MSDS form does not contain the minimum required information, DEP may be unable to process the request for a new additive.

Send the completed form with attachments to DEP via email at RA-EPNPDES_PERMITS@pa.gov. If the form and attachments cannot be submitted via email, mail them to the following address:

DEP Bureau of Clean Water
NPDES Permitting Division
Rachel Carson State Office Building
PO Box 8774
Harrisburg, PA 17105-8774