NALCO Water

SAFETY DATA SHEET

NALCO® 71D5 PLUS

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	NALCO® 71D5 PLUS
Other means of identification	:	Not applicable.
Recommended use	:	ANTIFOAM
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 21 Gul Lane, Singapore 629416 TEL: 65- 6505-6868 FAX: 65-6862 0850
Emergency telephone number	:	+(65)-31581349
Issuing date	:	29.11.2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration hazard	: Category 1
Chronic aquatic toxicity	: Category 2

GHS Label element

Hazard	pictograms
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Signal Word : Danger

 Hazard Statements
 : May be fatal if swallowed and enters airways.

 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention: Avoid release to the environment. Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician. Disposal: Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Pure substance/mixture	:	Mixture

Chemical Name	CAS-No.	Concentration: (%)
Hydrotreated Middle Distillate	64742-46-7	30 - 60
Hydrotreated Light Distillate	64742-47-8	10 - 30
Stearic Acid	57-11-4	1 - 5
1-Octanol	111-87-5	1 - 5

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Paraffin Wax

8002-74-2

1 - 5

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.
In case of skin contact	:	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Get medical attention if irritation develops and persists.
If swallowed	:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Aspiration hazard if swallowed - can enter lungs and cause damage. 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	:	Foam Carbon dioxide Dry powder Other extinguishing agent suitable for Class B fires For large fires, use water spray or fog, thoroughly drenching the burning material.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance.
Hazardous combustion products	:	Decomposition products may include the following materials: Carbon oxides
Special protective equipment for firefighters	:	Use personal protective equipment. In case of fire, wear a full face positive- pressure self contained breathing apparatus and protective suit.
Specific extinguishing methods	:	Use water spray to cool unopened containers. 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. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Ensure adequate ventilation. Remove all sources of ignition. Ensure clean-up is
protective equipment and		conducted by trained personnel only. Refer to protective measures listed in

NALCO® 71D5 PLUS		
emergency procedures		sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Eliminate all ignition sources if safe to do so. 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. Do not flush into surface water or sanitary sewer system.
Section: 7. HANDLING AND S	<u>ST(</u>	DRAGE
Advice on safe handling	:	Avoid contact with skin and eyes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	:	Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. 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: Brass, Stainless Steel 304, Stainless Steel 316L, Plasite 4300, Plasite 7122, Mild steel, Fluoroelastomer, HDPE (high density polyethylene), Nylon, PVC, PTFE, Chlorosulfonated polyethylene rubber, Perfluoroelastomer, Epoxy phenolic resin, 100% phenolic resin liner
Unsuitable material	:	The following compatibility data is suggested based on similar product data and/or industry experience: Neoprene, EPDM, Nitrile, Polypropylene (rigid), Buna-N

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Hydrotreated Middle Distillate	64742-46-7	PEL (long term) (Mist)	5 mg/m3	SG PEL
		PEL (short term) (Mist)	10 mg/m3	SG PEL
Hydrotreated Middle Distillate	64742-46-7	TWA	500 ppm 2,000 mg/m3	OSHA Z1
		TWA (Mist)	5 mg/m3	NIOSH REL
		STEL (Mist)	10 mg/m3	NIOSH REL
		TWA (Mist)	5 mg/m3	OSHA Z1
Hydrotreated Light Distillate	64742-47-8	PEL (long term) (Mist)	5 mg/m3	SG PEL
		PEL (short term) (Mist)	10 mg/m3	SG PEL
Hydrotreated Light Distillate	64742-47-8	TWA	500 ppm 2,000 mg/m3	OSHA Z1
		TWA	200 mg/m3 (as total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m3	OSHA Z1

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		TWA (Mist)	5 mg/m3	NIOSH REL
		STEL (Mist)	10 mg/m3	NIOSH REL
Stearic Acid	57-11-4	TWA	10 mg/m3	ACGIH
Paraffin Wax	8002-74-2	PEL (long term) (Fumes)	2 mg/m3	SG PEL
Paraffin Wax	8002-74-2	TWA (Fumes)	2 mg/m3	ACGIH
		TWA (Fumes)	2 mg/m3	NIOSH REL

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 protective gloves. Nitrile gloves PVA OR VITON 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	:	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.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

:	Liquid
:	clear
	pale, yellow, to, amber
:	hydrocarbon-like
:	92 °C, Method: ASTM D 93, Pensky-Martens closed cup
:	Not applicable.
:	no data available
:	POUR POINT: -45 °C, ASTM D-1177
:	132.2 °C, Method: ASTM D 86
:	no data available
:	5.1 mm Hg, (37.8 °C), ASTM D 5191,
:	no data available
:	0.84, (25 °C),
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Density	:	no data available
Water solubility	:	insoluble
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	:	10 mPa.s (22.2 °C), Method: ASTM D 2983
Viscosity, kinematic	:	7.94 mm2/s (40 °C), Method: ASTM D 445
Molecular weight	:	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	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Decomposition products may include the following materials: Carbon oxides

Section: 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Eyes	:	Health injuries are not known or expected under normal use.	
Skin	:	Health injuries are not known or expected under normal use.	
Ingestion	:	May be fatal if swallowed and enters airways.	
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	:	Vomiting	
Inhalation	:	No symptoms known or expected.	
Toxicity			

Product

:	LD50 rat: > 15,380 mg/kg Test substance: Similar Product
:	no data available
:	LD50 rabbit: > 3,038 mg/kg Test substance: Similar Product
:	Species: Rabbit Result: 3.1 Method: Draize Test Test substance: Similar Product
:	Species: rabbit Result: 6.0 Method: Draize Test Test substance: Similar Product
:	no data available
:	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.
:	No reproductive toxic effects expected.
:	Contains no ingredient listed as a mutagen
:	no data available
:	no data available
:	no data available
:	May be fatal if swallowed and enters airways.

Human Hazard Characterization

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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects	:	Toxic to aquatic life with long lasting effects.
Product		
Toxicity to fish	:	LC50 Oncorhynchus mykiss (rainbow trout): 310 mg/l Exposure time: 96 hrs Test substance: Product
		NOEC Oncorhynchus mykiss (rainbow trout): < 78 mg/l Exposure time: 96 hrs Test substance: Product
Toxicity to daphnia and other aquatic invertebrates	:	LC50 Daphnia magna (Water flea): 220 mg/l Exposure time: 48 hrs Test substance: Product
		EC50 Daphnia magna (Water flea): 130 mg/l Exposure time: 48 hrs Test substance: Product

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		NOEC Daphnia mag Exposure time: 48 hr Test substance: Proc	na (Water flea): 16 mg/l ˈs duct
Toxicity to algae	:	no data available	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1.5 mg/l Exposure time: 7 d Species: Ceriodaphn Test substance: Proc	ia dubia duct
		LOEC: 3.0 mg/l Exposure time: 7 d Species: Ceriodaphn Test substance: Proc	ia dubia duct
		NOEC: 0.19 mg/l Exposure time: 7 d Species: Ceriodaphn Test substance: Proc	ia dubia duct
		LOEC: 0.38 mg/l Exposure time: 7 d Species: Ceriodaphn Test substance: Proc	ia dubia duct
		EC25 / IC25: 0.40 m Exposure time: 7 d Species: Ceriodaphn Test substance: Proc	g/l iia dubia duct
Components			
Toxicity to algae	:	Hydrotreated Light D EC50 : > 1,000 mg/l Exposure time: 72 h	istillate
Components			
Toxicity to bacteria	:	Hydrotreated Light D > 1,000 mg/l Exposure time: 48 h	istillate
Persistence and degradabilit	t y		
The organic portion of this prep	bar	ation is expected to be	e inherently biodegradable.
Total Organic Carbon (TOC) :	19	5,870 mg/l	
Chemical Oxygen Demand (Co	DC): 2,200,000 mg/l	
Biochemical Oxygen Demand Incubation Period	(BC V: 1(DD): alue D2,440 mg/l	Test Descriptor Product
OECD 301 D (Closed Bottle) 2	28	Day 70-80%	

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	:	10 - 30%
Water	:	30 - 50%
Soil	:	30 - 50%

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: Moderate

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. Proper shipping name Technical name(s) Transport hazard class(es) Packing group	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 1-Octanol 9 III
Air transport (IATA)	
UN/ID No. Proper shipping name Technical name(s) Transport hazard class(es) Packing group	 UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 1-Octanol 9 III

Sea transport (IMDG/IMO)

UN/ID No. Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
Technical name(s)	:	1-Octanol
Transport hazard class(es)	:	9
Packing group	:	

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 :

United States TSCA Inventory

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

Australia. Industrial Chemical (Notification and Assessment) Act

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

Canadian Domestic Substances List (DSL)

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

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).

Revision Date	: 29.11.2019
Version Number	: 2.0A
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.