

Nalco 04VD008

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Nalco 04VD008

Other means of identification : Not applicable.

Restrictions on use Refer to available product literature or ask your local Sales

Representative for restrictions on use and dose limits.

Nalco Champion Company Company

7705 Highway 90-A

Sugar Land, Texas 77478

USA

TEL: (281) 263-7000

Emergency telephone

number

CHEMTREC (800) 424-9300 (24 Hours)

03/06/2015 Issuing date

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids Category 3 Acute toxicity (Oral) : Category 4 Acute toxicity (Inhalation) : Category 3 Acute toxicity (Dermal) : Category 4 : Category 2 Skin irritation Serious eye damage : Category 1 Skin sensitization : Category 1 : Category 1 (Eyes)

Specific target organ toxicity -

single exposure

Specific target organ toxicity -: Category 2

single exposure

single exposure

Specific target organ toxicity -: Category 3 (Central Nervous System)

Specific target organ toxicity -

repeated exposure

: Category 2 (Kidney)

Specific target organ toxicity -

repeated exposure (Oral)

: Category 2

GHS Label element

Hazard pictograms









Signal Word Danger

Hazard Statements : Flammable liquid and vapour.

Harmful if swallowed or in contact with skin

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage.

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Toxic if inhaled.

May cause drowsiness or dizziness. Causes damage to organs (Eyes). May cause damage to organs.

May cause damage to organs through prolonged or repeated exposure if swallowed.

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe 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/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. 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. IF exposed: Call a POISON CENTER or doctor/ physician. Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. If skin irritation or rash occurs: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. 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: (%)
Methanol	67-56-1	10 - 30
Triethanolamine Tri(Phosphate Ester), Sodium	68171-29-9	5 - 10
Salt		
Sodium Phosphate, Tribasic	7601-54-9	1 - 5
Quaternary ammonium compound	Proprietary	1 - 5
2-Mercaptoethyl Alcohol	60-24-2	1 - 5
Quaternary ammonium compound	Proprietary	1 - 5
Ethylene Glycol	107-21-1	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.

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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.

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

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention

immediately.

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.

Unsuitable extinguishing

media

None known.

Specific hazards during

firefighting

Fire Hazard

Keep away from heat and sources of ignition.
Flash back possible over considerable distance.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or

other sources of ignition.

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

: Use water spray to cool unopened containers. 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 adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and

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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. Flush away traces with water.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes. Open drum carefully as content

may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. 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 labeled containers. Connections must be grounded to avoid electrical charges. Avoid direct sunlight. At temperatures greater than 30°C a component of this product may degrade leading to the

production of hydrogen sulfide (H2S).

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 : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Methanol	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm 260 mg/m3	NIOSH REL
		STEL	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z1
Sodium Phosphate, Tribasic	7601-54-9	STEL	5 mg/m3	WEEL
2-Mercaptoethyl Alcohol	60-24-2	TWA	0.2 ppm	WEEL
Ethylene Glycol	107-21-1	Ceiling (Aerosol	100 mg/m3	ACGIH

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only)

Effective exhaust ventilation system Maintain air concentrations Engineering measures

below occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

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 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.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid Colour clear Odour Pungent Flash point : 31.0 °C

рΗ : no data available 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) : no data available Upper explosion limit : no data available no data available Lower explosion limit Vapour pressure : 73.9 mm Hg Relative vapour density : no data available Relative density : 1.05 (15.5 °C)

Water solubility completely soluble Solubility in other solvents no data available

Partition coefficient: n-

octanol/water

Density

: no data available

8.7 lb/gal

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Auto-ignition temperature : no data available

Thermal decomposition

temperature

: no data available

Viscosity, dynamic : 15.8 mPa.s (-12.2 °C)

3.7 mPa.s (25 °C)

7.3 mPa.s (4.4 °C)

Viscosity, kinematic : no data available VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Chemical stability : At temperatures greater than 30°C a component of this product may

degrade leading to the production of hydrogen sulfide (H2S).

Possibility of hazardous

Conditions to avoid

reactions

: No dangerous reaction known under conditions of normal use.

: Extremes of temperature Heat, flames and sparks.

Incompatible materials : 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)

Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

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

exposure

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Harmful in contact with skin. Causes skin irritation. May cause

allergic skin reaction.

Ingestion : May cause blindness if swallowed. Harmful if swallowed.

: Toxic if inhaled. Inhalation may cause central nervous system Inhalation

effects.

Chronic Exposure : May cause damage to organs. May cause damage to organs

through prolonged or repeated exposure.

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

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Skin contact : Redness, Irritation, Allergic reactions

Ingestion : No information available.

Inhalation : Respiratory irritation, Cough, Dizziness, Drowsiness

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate : 420.81 mg/kg

Acute inhalation toxicity : Acute toxicity estimate : 2.99 mg/l

Exposure time: 4 h

Acute dermal toxicity : Acute toxicity estimate : 1,172 mg/kg

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

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 : Toxic to aquatic life with long lasting effects.

Components

Toxicity to fish : Methanol

LC50 : 15,400 mg/l Exposure time: 96 h

Sodium Phosphate, Tribasic

LC50 Fish: 120 mg/l Exposure time: 96 h

Ethylene Glycol LC50: 72,860 mg/l Exposure time: 96 h

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Components

Toxicity to daphnia and other

aquatic invertebrates

: Methanol

EC50 : > 10,000 mg/l Exposure time: 48 h

2-Mercaptoethyl Alcohol EC50 : 0.89 mg/l Exposure time: 48 h

Ethylene Glycol EC50 : > 100 mg/l Exposure time: 48 h

Components

Toxicity to algae : Methanol

EC50 : 22,000 mg/l Exposure time: 72 h

Triethanolamine Tri(Phosphate Ester), Sodium Salt

EC50 : 550 mg/l Exposure time: 72 h

Ethylene Glycol EC50: 6,500 mg/l Exposure time: 96 h

Components

Toxicity to bacteria : Methanol

> 1,000 mg/l

Ethylene Glycol > 1,995 mg/l

Components

Toxicity to fish (Chronic

toxicity)

Methanol

NOEC: 7,900 mg/l Exposure time: 8.3 d

Ethylene Glycol NOEC: 15,380 mg/l Exposure time: 7 d

Components

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: Ethylene Glycol NOEC: 8,590 mg/l Exposure time: 7 d

Persistence and degradability

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

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

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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

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 to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Hazardous Waste: : D001

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 : FLAMMABLE LIQUID, N.O.S.

Technical name(s) : METHANOL UN/ID No. : UN 1993

Transport hazard class(es) : 3
Packing group : III

Reportable Quantity (per : 25,000 lbs

package)

RQ Component : METHANOL

Air transport (IATA)

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Proper shipping name : FLAMMABLE LIQUID, N.O.S.

Technical name(s) : METHANOL UN/ID No. : UN 1993

Transport hazard class(es) : 3
Packing group : III

Reportable Quantity (per

package)

: 25,000 lbs

RQ Component : METHANOL

Sea transport (IMDG/IMO)

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

Technical name(s) : METHANOL UN/ID No. : UN 1993

Transport hazard class(es) : 3
Packing group : III

*Marine pollutant : Organic sulfur compound

*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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Methanol	67-56-1	5000	25000

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

 Methanol
 67-56-1
 10 - 30 %

 Ethylene Glycol
 107-21-1
 1 - 5 %

California Prop 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Methanol 67-56-1

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)

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CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

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.

KOREA

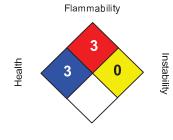
This product contains substance(s) which are not in compliance with the Toxic Chemical Control Law (TCCL) and may require additional review.

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:

HEALTH	3*
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Revision Date : 03/06/2015

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 quidance 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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