NALCO Water

SAFETY DATA SHEET

NALCO® 19 PULV

Section: 1. IDENTIFICATION

Product name : NALCO® 19 PULV

Other means of identification : Not applicable.

Recommended use : OXYGEN SCAVENGER

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

restrictions on use and dose limits.

Company : Nalco Canada ULC

1055 Truman Street

Burlington, Ontario L7R 3Y9

Canada

TEL: (905)633-1000

Emergency telephone

number

: (800)463-3216 (24 Hours)

Issuing date : 2019/05/21

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

GHS Label element

Hazard pictograms



Signal Word : Warning

Hazard Statements : Causes serious eye irritation.

Precautionary Statements : **Prevention:**

Wash skin thoroughly after handling. Wear eye protection/face protection.

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

Chemical Name/Common Name/Synonyms CAS-No. Concentration: (%) (w/w) *

Sodium Metabisulfite 7681-57-4 1 - 5

^{*} Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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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 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

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

Decomposition products may include the following materials: Carbon oxides

nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Special protective equipment :

and precautions for

firefighters

Use personal protective equipment.

Specific extinguishing

methods

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, protective equipment and emergency procedures Ensure adequate ventilation. 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.

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Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal.

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with skin and eyes. Wash hands thoroughly after handling. Use

only with adequate ventilation.

Conditions for safe storage : 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: HDPE (high density polyethylene), Polypropylene, 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
Sodium Metabisulfite	7681-57-4	TWA	5 mg/m3	NIOSH REL
		TWA	5 mg/m3	ACGIH
Sodium Metabisulfite	7681-57-4	TWA	5 mg/m3	CAD AB OEL
		TWA	5 mg/m3	CAD BC OEL
		VME	5 mg/m3	OEL (QUE)

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

airborne contaminants.

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection : Wear protective gloves.

Impervious gloves, resistant to chemicals.

Nitrile rubber butyl-rubber Neoprene

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.

Dust safety masks are recommended when the dust concentration is more than

10 mg/m3.

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

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exposed skin thoroughly after handling.

Human Exposure Characterization:

Based on our recommended product application and personal protective equipment, the potential human exposure

is: Moderate

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Powder Colour off-white Odour Slight

Flash point Will not burn: inorganic or water-based product

рΗ 7.0 - 9.0,(10 %), (25 °C)

Odour Threshold no data available

Melting point/freezing point MELTING POINT: , No data available.

Initial boiling point and boiling:

range

no data available

Evaporation rate no data available Flammability (solid, gas) no data available 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 no data available no data available Density Water solubility completely soluble Solubility in other solvents no data available Partition coefficient: nno data available

octanol/water

VOC

Auto-ignition temperature

Thermal decomposition

no data available no data available no data available no data available no data available

Viscosity, kinematic

Viscosity, dynamic

Molecular weight no data available

Section: 10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal conditions.

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Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Extremes of temperature

Exposure to air or moisture over prolonged periods.

None known.

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.

Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic,

sulfonic) may generate heat, splattering or boiling and toxic vapors.

May release SO2 or hydrogen sulfide on contact with acids.

Hazardous decomposition

products

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

Carbon oxides

nitrogen oxides (NOx)

Sulphur oxides

Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Eye contact, Skin contact

exposure

Potential Health Effects

Eyes Causes serious eye irritation.

Skin Health injuries are not known or expected under normal use.

Health injuries are not known or expected under normal use. Ingestion

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, Pain, Irritation

Skin contact No symptoms known or expected.

Ingestion No symptoms known or expected.

Inhalation No symptoms known or expected.

Toxicity

Product

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Acute oral toxicity Acute toxicity estimate: 2,203 mg/kg

Acute toxicity estimate: 5.67 mg/l Acute inhalation toxicity

Exposure time: 4 h

no data available Acute dermal toxicity Skin corrosion/irritation no data available Serious eye damage/eye

irritation

no data available

Respiratory or skin

sensitization

Result: Contains an ingredient that can cause asthmatic-like reactions in sulfite-

sensitive individuals.

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

Human Hazard Characterization

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

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout): > 100 mg/l

Exposure time: 96 hrs

Test substance: 1% Aqueous Solution of Product

LC50 Lepomis macrochirus (Bluegill sunfish): 10 - 100 mg/l

Exposure time: 96 hrs

Test substance: 1% Aqueous Solution of Product

LC50 Pimephales promelas (fathead minnow): > 100 mg/l

Exposure time: 48 h Test substance: Product

NOEC Pimephales promelas (fathead minnow): 100 mg/l

Exposure time: 48 h Test substance: Product

LC50 Pimephales promelas (fathead minnow): > 100 mg/l

Exposure time: 96 h Test substance: Product

NOEC Pimephales promelas (fathead minnow): 100 mg/l

Exposure time: 96 h

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Test substance: Product

Toxicity to daphnia and other

aquatic invertebrates

: LC50 Daphnia magna (Water flea): 130 mg/l

Exposure time: 48 hrs Test substance: Product

NOEC Daphnia magna (Water flea): 100 mg/l

Exposure time: 48 hrs Test substance: Product

LC50 Ceriodaphnia dubia: > 100 mg/l

Exposure time: 48 h Test substance: Product

NOEC Ceriodaphnia dubia: 100 mg/l

Exposure time: 48 h Test substance: Product

Toxicity to algae : no data available

Persistence and degradability

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

Chemical Oxygen Demand (COD): 113,000 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 : 50 - 70%

The portion in water is expected to float on the surface.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION

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

Based on our recommended product application and the product's characteristics, the potential environmental exposure is: Moderate

Section: 13. DISPOSAL CONSIDERATIONS

In Ontario, the waste class under Regulation 347 is: 148L

Disposal methods : 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 (TDG)

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

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

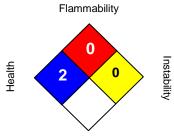
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

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

Section: 16. OTHER INFORMATION

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NFPA:



Special hazard.

HMIS III:

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Due to our commitment to Product Stewardship, we have evaluated the human and environmental hazards and exposures of this product. Based on our recommended use of this product, we have characterized the product's general risk. This information should provide assistance for your own risk management practices. We have evaluated our product's risk as follows:

* The human risk is: Low

* The environmental risk is: Moderate

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

Revision Date : 2019/05/21

Version Number : 1.1

: Regulatory Affairs (905)633-1000 Prepared By

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.