

PRODUCT

# NALCO® 19 PULV

**EMERGENCY TELEPHONE NUMBER(S)** CHEMTREC

(800) 424-9300 (24 Hours)

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

**NALCO® 19 PULV** 

APPLICATION:

**OXYGEN SCAVENGER** 

**COMPANY IDENTIFICATION:** 

Nalco Company 1601 W. Diehl Road Naperville, Illinois 60563-1198

**EMERGENCY TELEPHONE NUMBER(S):** 

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NFPA 704M/HMIS RATING

HEALTH: 2/2

FLAMMABILITY: 0/0

INSTABILITY:

0/0

OTHER:

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme \* = Chronic Health Hazard

#### COMPOSITION/INFORMATION ON INGREDIENTS 2.

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)

CAS NO

% (w/w)

Sodium Metabisulfite

7681-57-4

1.0 - 5.0

Sodium Sulfite

7757-83-7

60.0 - 100.0

HAZARDS IDENTIFICATION 3.

## \*\*EMERGENCY OVERVIEW\*\*

#### WARNING

Irritating to eyes, respiratory system and skin. Contains Sulfite. Causes asthmatic signs and symptoms in hyper-reactive individuals. Contact with acids liberates toxic gas.

Do not get in eyes, on skin or on clothing. Do not take internally. Use with adequate ventilation. Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.

Wear suitable protective clothing, gloves and eye/face protection.

Not flammable or combustible. May evolve oxides of sulfur (SOx) under fire conditions.

PRIMARY ROUTES OF EXPOSURE:

Eye, Skin, Inhalation

**HUMAN HEALTH HAZARDS - ACUTE:** 

**EYE CONTACT:** 

Can cause moderate to severe irritation.



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#### SKIN CONTACT:

Can cause moderate irritation.

#### INGESTION:

There may be Irritation to the gastro-intestinal tract with nausea and vomiting. May cause asthmatic-like attack.

#### INHALATION:

Irritating to the eyes, nose, throat and lungs. Contains Sulfite. Causes asthmatic signs and symptoms in hyper-reactive individuals.

### AGGRAVATION OF EXISTING CONDITIONS:

A review of available data does not identify any worsening of existing conditions.

# HUMAN HEALTH HAZARDS - CHRONIC:

Ingestion of sulfite can cause a severe allergic reaction in asthmatics and some sulfite sensitive individuals. The resulting symptoms can include difficulty in breathing, flushed skin and a rash.

### 4. | FIRST AID MEASURES

#### EYE CONTACT:

Brush off excess powder. Immediately flush eye with water for at least 15 minutes while holding eyelids open. Get medical attention.

#### SKIN CONTACT:

Brush off excess powder. Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

#### INGESTION:

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. Get medical attention.

### **INHALATION:**

Remove to fresh air, treat symptomatically. Get medical attention.

#### NOTE TO PHYSICIAN:

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

# 5. FIRE FIGHTING MEASURES

FLASH POINT:

Not flammable

### **EXTINGUISHING MEDIA:**

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

### FIRE AND EXPLOSION HAZARD:

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#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

### 6. ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS:

Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Keep people away from and upwind of spill/leak. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

#### METHODS FOR CLEANING UP:

Sweep up and shovel. Reclaim into recovery or salvage drums. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

### **ENVIRONMENTAL PRECAUTIONS:**

Do not contaminate surface water.

### 7. HANDLING AND STORAGE

#### **HANDLING:**

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating dusts. Keep the containers closed when not in use. Ensure all containers are labeled.

## STORAGE CONDITIONS:

Store in suitable labeled containers. Store the containers tightly closed. Store separately from oxidizers. Store separately from acids. Amine and sulphite products should not be stored within close proximity or resulting vapors may form visible airborne particles. Keep in dry place.

### SUITABLE CONSTRUCTION MATERIAL:

HDPE (high density polyethylene), Polypropylene, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### OCCUPATIONAL EXPOSURE LIMITS:

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below. Exposure limits are listed for sulfur dioxide (SO2) since this product evolves SO2 when open to the atmosphere.

Substance(s)	Category:	ppm	mg/m3	Non-Standard Unit
Sodium Bisulfite	ACGIH/TWA		5	O Ht
Sulfur Dioxide	ACGIH/STEL OSHA Z1/PEL	0.25 5	13	



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#### **ENGINEERING MEASURES:**

General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

#### RESPIRATORY PROTECTION:

Where concentrations in air may exceed the limits given in this section or when significant mists, vapors, aerosols, or dusts are generated, an approved air purifying respirator equipped with suitable filter cartridges is recommended. A dust respirator may be used. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

#### HAND PROTECTION:

When handling this product, the use of chemical gloves is recommended. The choice of work glove depends on work conditions and what chemicals are handled. Please contact the PPE manufacturer for advice on what type of glove material may be suitable. Gloves should be replaced immediately if signs of degradation are observed.

#### SKIN PROTECTION:

When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended.

#### **EYE PROTECTION:**

Wear chemical splash goggles.

#### HYGIENE RECOMMENDATIONS:

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

### **HUMAN EXPOSURE CHARACTERIZATION:**

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

Powder

**APPEARANCE** 

Off-white

ODOR

Slight

**BULK DENSITY** 

100 - 120 lb/ft3 @ 77 °F / 25 °C

SOLUBILITY IN WATER

Complete

pH (10%)

7.6 - 8.2

VOC CONTENT

0 % Calculated

Note: These physical properties are typical values for this product and are subject to change.



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# 10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions.

HAZARDOUS POLYMERIZATION:

Hazardous polymerization will not occur.

CONDITIONS TO AVOID:

Moisture

MATERIALS TO AVOID:

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. Contains Sulfite. SO2 may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles.

#### HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions:

Oxides of sulfur

# 11. TOXICOLOGICAL INFORMATION

The following results are for the active components.

**ACUTE ORAL TOXICITY:** 

Species:

Ret

LD50:

2,000 mg/kg

Test Descriptor:

Active Substance Sodium Bisulfite

### **SENSITIZATION:**

Sulfites can cause an allergic reaction in sensitive individuals.

### **CARCINOGENICITY:**

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

### **HUMAN HAZARD CHARACTERIZATION:**

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

### 12. ECOLOGICAL INFORMATION

## **ECOTOXICOLOGICAL EFFECTS:**

The following results are for a 1% aqueous solution.



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#### **ACUTE FISH RESULTS:**

Species	Exposure	LC50	Test Descriptor
Bluegill Sunfish	96 hrs	10 - 100 mg/l	1% Aqueous Solution of Product
Rainbow Trout	96 hrs	> 100 mg/l	1% Aqueous Solution of Product

### **ACUTE INVERTEBRATE RESULTS:**

Species			EC50	Test Descriptor
Daphnia magna	48 hrs	130 mg/l		Product

#### PERSISTENCY AND DEGRADATION:

Chemical Oxygen Demand (COD):

113,000 mg/l

The organic portion of this preparation is expected to be poorly 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 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	Water	Soil/Sediment
<5%	30 - 50%	50 - 70%

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

### **BIOACCUMULATION POTENTIAL**

This preparation or material is not expected to bioaccumulate.

### **ENVIRONMENTAL HAZARD AND EXPOSURE CHARACTERIZATION**

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

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

If released into the environment, see CERCLA/SUPERFUND in Section 15.

### 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous waste, it is not subject to federal regulation. Consult state or local regulation for any additional handling, treatment or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.



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## 14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT:

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING

**TRANSPORTATION** 

AIR TRANSPORT (ICAO/IATA):

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING

**TRANSPORTATION** 

MARINE TRANSPORT (IMDG/IMO):

Proper Shipping Name:

PRODUCT IS NOT REGULATED DURING

TRANSPORTATION

### 15. REGULATORY INFORMATION

This section contains additional information that may have relevance to regulatory compliance. The information in this section is for reference only. It is not exhaustive, and should not be relied upon to take the place of an individualized compliance or hazard assessment. Nalco accepts no liability for the use of this information.

## NATIONAL REGULATIONS, USA:

# OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

Sodium Metabisulfite: Respiratory irritant

Sodium Sulfite: Respiratory irritant

### CERCLA/SUPERFUND, 40 CFR 302:

Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):

Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:



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X Immediate (Acute) Health Hazard
- Delayed (Chronic) Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):

This product does not contain substances on the List of Toxic Chemicals.

### TOXIC SUBSTANCES CONTROL ACT (TSCA):

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

# FOOD AND DRUG ADMINISTRATION (FDA) Federal Food, Drug and Cosmetic Act:

When use situations necessitate compliance with FDA regulations, this product is acceptable under: 21 CFR 173.310 Boiler Water Additives

Limitations: no more than required to produce intended technical effect.

NSF NON-FOOD COMPOUNDS REGISTRATION PROGRAM (former USDA List of Proprietary Substances & Non-Food Compounds) :

NSF Registration number for this product is: 141554

This product is acceptable for treating boilers or steam lines where steam produced may contact edible products and/or cooling systems where the treated water may not contact edible products in and around food processing areas, excluding such use in areas where meat and poultry are processed (G9).

This product has been certified as KOSHER/PAREVE for year-round use INCLUDING THE PASSOVER SEASON by the CHICAGO RABBINICAL COUNCIL.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

CLEAN AIR ACT, Sec. 112 (Hazardous Air Pollutants, as amended by 40 CFR 63), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances):

This product may contain trace levels (<0.1% for carcinogens, <1% all other substances) of the following substance(s) listed under the regulation. Additional components may be unintentionally present at trace levels.

Substance(s)	Citations
Cobalt Sulfate	Sec. 112



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### **CALIFORNIA PROPOSITION 65:**

This material contains trace amounts of chemicals known to the State of California to cause cancer.

### MICHIGAN CRITICAL MATERIALS:

Substances listed under this regulation are not intentionally added or expected to be present in this product. Listed components may be present at trace levels.

#### STATE RIGHT TO KNOW LAWS:

The following substances are disclosed for compliance with State Right to Know Laws:

Sodium Metabisulfite

7681-57-4

Sodium Sulfate

7757-82-6

#### INTERNATIONAL CHEMICAL CONTROL LAWS:

### CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

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

#### **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 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.

#### JAPAN

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).

#### KORFA

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

#### **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.

#### **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).



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#### 16. OTHER INFORMATION

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.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

#### REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.



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Ariel Insight™ (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight™ CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS™ CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By: Product Safety Department

Date issued: 06/10/2010 Version Number: 2.0

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