

**PRODUCT**
**NALCO® 2360**
**EMERGENCY TELEPHONE NUMBER(S)**

See section 16, for Emergency Telephone Numbers.

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**PRODUCT NAME :** NALCO® 2360  
**APPLICATION :** POLISHING SLURRY  
**COMPANY IDENTIFICATION :** NALCO EUROPE B.V.  
 Postbus 627  
 2300 AP Leiden, The Netherlands  
**EMERGENCY TELEPHONE NUMBER(S) :** See section 16, for Emergency Telephone Numbers.  
**Date issued :** 23.11.2009  
**Version Number :** 1.3

**COMPANY CONTACT TELEPHONE NUMBERS.**

NALCO EUROPE B.V.	+31 71 5241 100	NALCO NORGE AS (NO)	+47 51 96 36 00
NALCO AB (SE)	+46 (0)31-21 88 00	Nalco Mobotec Polska Sp. z o.o.	PRZEMYS ŁOWA 55 PL-43-110 TYCHY TEL:+48 (0)32-3262750 FAX: +48(0)32 329 13 11 e-mail: office@nalco.pl
NALCO ANADOLU KIMYA (TR)	+90 216 5743464	NALCO PORTUGUESA LDA. (P)	+351 214130996
NALCO APPLIED SERVICES OF EUROPE BV	+31 (0)73 6456980	NTD S.r.l (IT)	+39 (0) 313351325
NALCO BELGIUM N.V./S.A. (B)	+32 (0)3-450 69 10	Nalco Switzerland AG (CH)	+41 (0)52 235 38 38
NALCO DANMARK A/S	+45-48195800	Nalco Company OOO	+7 (0)495 980 72 80
NALCO DEUTSCHLAND GmbH (D)	+49 (0)69-79340	NALCO ÖSTERREICH Ges.m.b.H. (A)	+ 43(0)1 27026350
NALCO ESPAÑOLA S.A. (E)	+34 93-4095555	First Distributor: Nalco Czechia s.r.o. (CZ)	Stankova 882/2, CZ-149 00 Praha 4, Czech Republic, +420 (0)2 679 123 50
NALCO FINLAND OY (FI)	+358 (0)9 2517 4700	Local Support: Nalco Hungary Kft. (HU)	+36 1 880 5761
NALCO FRANCE SAS	+33 (0)3 20 11 70 00	Local Support: Nalco Österreich Ges.m.b.H., Representation Office Predstavnistvo Zagreb (HR)	+385 (0)1 377 95 21
NALCO HELLAS S.A. (GR)	+30 210 238 9620	Local Support: Nalco Österreich Ges.m.b.H. Representation Office ROMANIA (RO)	+40 (0) 21 224 17 93
NALCO ITALIANA S.R.L.(I)	+39 06-54565000	NALCO LIMITED	+44 (0)1606 74488
NALCO NETHERLANDS B.V.	+31 (0)13-5952200		

 For Product Safety information please contact Jacqueline Bland, e-mail [EUProductSafety@nalco.com](mailto:EUProductSafety@nalco.com)
**2. HAZARDS IDENTIFICATION**
**HAZARD CLASSIFICATION :**

This product is not classified as dangerous in accordance with Directives 67/548/EEC or 1999/45/EC.

**HUMAN HEALTH HAZARDS - ACUTE :**
**INHALATION :**

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Inhalation of dried product dust may cause irritation.

**SKIN CONTACT :**

May cause irritation with prolonged contact.

**EYE CONTACT :**

May cause irritation with prolonged contact.

**INGESTION :**

May cause mucosal damage. May cause nausea and vomiting.

**HUMAN HEALTH HAZARDS - CHRONIC :**

Prolonged inhalation of dust containing amorphous silica can increase lung injury in individuals with emphysema, asthma or other lung disorders.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is not classified as dangerous in accordance with Directives 67/548/EEC or 1999/45/EC.

Hazardous Substance(s)	EINECS / ELINCS NO	CAS NO	SYMBOL	R-PHRASES / NOTAS OEL	% (w/w)
Colloidal Silica	231-545-4	7631-86-9			30 - 60

Refer to Section 16 for descriptions of relevant risk phrases and Notas.

**4. FIRST AID MEASURES****INHALATION :**

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**SKIN CONTACT :**

Flush affected area with water. If symptoms develop, seek medical advice.

**EYE CONTACT :**

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

**INGESTION :**

Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.

**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 :**

Not flammable or combustible.



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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. Ventilate spill area if possible.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. 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. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labeled. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

STORAGE CONDITIONS :

Protect product from freezing. Store in suitable labeled containers. Store the containers tightly closed. Protect product from freezing. Store the containers tightly closed. Store in suitable labeled containers.

SUITABLE CONSTRUCTION MATERIAL :

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

SPECIFIC USE(S) :

POLISHING SLURRY

For specific dosages and customized applications please contact your representative.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

This product contains amorphous, colloidal or fumed silica. Should the product become dried or misted such that inhalation of the material is possible, standard hygiene practices should be utilized to ensure that exposure to respirable particles is within the regulated limits.

Country/Source	Substance(s)	Category:	ppm	mg/m <sup>3</sup>
AUSTRIA	Amorphous Silica (Inhalable fraction.)	MAK		4



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BELGIUM	Amorphous Silica	TWA	10
BULGARIA	Amorphous Silica (Inhalable fraction.)	TWA	4
	Amorphous Silica (Respirable fraction.)	TWA	1
	Amorphous Silica (Inhalable fraction.)	TWA	10
	Amorphous Silica (Respirable fraction.)	TWA	0.07
FINLAND	Amorphous Silica	HTP 8H	5
		HTP 8H	5
GERMANY	Amorphous Silica (Inhalable fraction.)	AGW	4
IRELAND	Amorphous Silica (Total inhalable dust.)	TWA	6
	Amorphous Silica (Respirable dust)	TWA	2.4
NORWAY	Amorphous Silica (Respirable dust)	ADM. NORM	1.5
SPAIN	Amorphous Silica	VLA-ED	10
UNITED KINGDOM	Amorphous Silica (Inhalable dust)	TWA	6
	Amorphous Silica (Respirable dust)	TWA	2.4
POLAND	Amorphous Silica (Respirable dust)	MAC-NDS	2
	Amorphous Silica (Total dust.)	MAC-NDS	10
CZECH REPUBLIC	Amorphous Silica (Dust)	PEL	4
CROATIA	Amorphous Silica	GVI	6
		GVI	2.4
RUSSIAN FEDERATION	Amorphous Silica (Aerosol.)	TWA	1
		CEIL	3
SERBIA	Amorphous Silica	MAC	2
SLOVAKIA	Amorphous Silica	TWA	4
SLOVENIA	Amorphous Silica (Inhalable fraction.)	TWA	4

\* A skin notation refers to the potential significant contribution to overall exposure by the cutaneous route, including mucous membranes and the eyes.

### MONITORING MEASURES :

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below:

Substance(s)	Method	Analysis	Absorbant
Amorphous Silica	UK MDHS: 14	Gravimetry	Glass fibre filter

### ENGINEERING MEASURES :

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

### PERSONAL PROTECTION

#### GENERAL ADVICE :

The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields. The applicable European standard can be found in EN 166.

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**RESPIRATORY PROTECTION :**

An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. When required by use conditions, wear an approved respirator. A dust respirator may be used. The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387.

**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, but we have positive experience under light handling conditions using gloves made from NEOPRENE, Nitrile, or PVC. Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers. The applicable European standard can be found in EN 374.

**SKIN PROTECTION :**

Wear standard protective clothing. The applicable European standard can be found in EN ISO 20345.

**EYE PROTECTION :**

When handling this product, the use of splash chemical goggles is recommended. The applicable European standard can be found in EN 166.

**HYGIENE RECOMMENDATIONS :**

Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE	Liquid
APPEARANCE	White Translucent
ODOR	None
FLASH POINT :	Not flammable
SPECIFIC GRAVITY	1.38 - 1.39
SOLUBILITY IN WATER	Complete
pH (100 %)	8.5
VISCOSITY	25 cps (20 °C)
FREEZING POINT	0 °C
BOILING POINT	100 °C Minimum
VAPOR PRESSURE	Same as water
VAPOR DENSITY	Same as water

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

**10. STABILITY AND REACTIVITY****STABILITY :**

Stable under normal conditions.

**HAZARDOUS POLYMERIZATION :**

Hazardous polymerization will not occur.

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CONDITIONS TO AVOID :  
Freezing temperatures.

MATERIALS TO AVOID :  
Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS :  
Under fire conditions: None known

**11. TOXICOLOGICAL INFORMATION**

The following results are for the product.

## ACUTE ORAL TOXICITY :

Species: Rat  
LD50: > 15,000 mg/kg  
Test Descriptor: Product

## PRIMARY SKIN IRRITATION :

Species: Rabbit  
Draize Score: 0.4 /8.0  
Test Descriptor: Product

## PRIMARY EYE IRRITATION :

Species: Rabbit  
Draize Score: 3.3 /110.0  
Test Descriptor: Product

## SENSITIZATION :

This product is not expected to be a sensitizer.

For additional information on the hazard of the preparation, please consult section 2 and 12.

**12. ECOLOGICAL INFORMATION**

## ECOTOXICOLOGICAL EFFECTS :

The following results are for the product.

## ACUTE FISH RESULTS :

Species	Exposure	LC50	NOEC	Method	Test Descriptor
Bluegill Sunfish	96 hrs	> 1,000 mg/l			Product
Rainbow Trout	96 hrs	> 1,000 mg/l			Product

## PERSISTENCY AND DEGRADATION :

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.



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### BIOACCUMULATION POTENTIAL

This preparation or material is not expected to bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations.

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. This product will generate an ash if burned. It can be burned directly in appropriate equipment. Any chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

### EUROPE WASTE CODE :

16 03 04 - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes other than those mentioned in 16 03 03. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

## 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

### CLASSIFICATION AND LABELLING :

This preparation is not regulated, however, we recommend the following safety precautions:

### SAFETY PHRASES

S24/25 - Avoid contact with skin and eyes.



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S37/39 - Wear suitable gloves and eye/face protection.

NATIONAL REGULATIONS GERMANY  
WGK 1 (Annex 4)

INTERNATIONAL CHEMICAL CONTROL LAWS  
EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

Safety Data Sheet according to Regulation (EC) No 1907/2006.

Nalco is committed to and fully supports the Registration, Evaluation, Authorization and restriction of Chemicals (REACH) regulation. It is our intention to pre-register all chemical substances that we manufacture or import into European Union and to work with our suppliers to ensure a smooth transition to this new regulatory environment. Should you require any further information on Nalco's REACH programme please contact us at reach@nalco.com or visit our website.

UNITED STATES :

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

CANADA :

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

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).

### 16. OTHER INFORMATION

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.

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Trans-European	+32-(0)3-575-5555
Belgium / Luxembourg	+32-(0)3-575-0330
Bulgaria	+32-(0)3-575-5555
Croatia	+385 (0)91-1-25-75-23
Czech Republic	+420-602-669421
Denmark	+47-22-33-69-99
Finland	+358-(0)9-471 977
France / French Switzerland	+33-(0)6-11-07-32-81
Germany / Austria / German Switzerland	+49-(0)6232-130128



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Hungary	+36-30-9-506-447
Italy / Italian Switzerland	+39-333-210-7947
Latvia	+32-(0)3-575-5555
The Netherlands	+32-(0)3-575-0330
Norway	+47-22-33-69-99
Poland	+48-(0)601-66-2626 (SGS) / +48 (0) 14 637 40 81 (SPOT)
Portugal	+351-91-911-1399
Romania	+40-744 -34-14-53
Russia / Belarus	+7-812-449-0474
Saudi Arabia	+966-(3)847-1515
Serbia	+32-(0)3-575-5555
Slovak Republic	+421-(0)905-585-938
Slovenia	+386-41-634-916
Spain	+34-977-551577
Sweden	+47-22-33-69-99
UAE	+44-(0)7071-223-738
UK and Republic of Ireland	+44-(0)7071-223-738
Nalfleet International	+32-(0)3-575-5555

### POISON CONTROL CENTER TELEPHONE NUMBERS

Belgium	+32-70-245245
Czech Republic	+420 224 91 92 93
Hungary	+36-80-201-199 ETTSZ, 1096 Budapest, Nagyvárad tér 2
France	+33-(0)145-42-59-59 ORFILA
Slovak Republic	+421 (0)2 5477 4166

Prepared By : Product Safety Department

Date issued : 23.11.2009

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Numbers quoted in the MSDS are given in the format: 1,000,000 = 1 million and 1,000 = 1 thousand. 0.1 = 1 tenth and 0.001 = 1 thousandth