

#### Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 2567

Other means of identification : Not applicable.

Recommended use : ALKALINE CLEANER

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company  
1601 W. Diehl Road  
Naperville, Illinois 60563-1198  
USA  
TEL: (630)305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

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#### Section: 2. HAZARDS IDENTIFICATION

##### GHS Classification

Skin corrosion : Category 1A  
Serious eye damage : Category 1

##### GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**  
Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse.  
**Storage:**  
Store locked up.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

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**Other hazards** : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical Name                  | CAS-No.     | Concentration: (%) |
|--------------------------------|-------------|--------------------|
| Silicate                       | Proprietary | 5 - 10             |
| 2-Butoxyethanol                | 111-76-2    | 5 - 10             |
| Substituted Alkyl Sulfate Salt | Proprietary | 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 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 immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. 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

Special protective equipment for firefighters : Use personal protective equipment.

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Specific extinguishing methods : 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. 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 8.

Environmental precautions : Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up : 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 : Do not ingest. 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 : Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Suitable material : Keep in properly labelled containers.

Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Aluminum, Brass, Polyurethane

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components      | CAS-No.  | Form of exposure | Permissible concentration       | Basis     |
|-----------------|----------|------------------|---------------------------------|-----------|
| 2-Butoxyethanol | 111-76-2 | TWA              | 20 ppm                          | ACGIH     |
|                 |          | TWA              | 5 ppm<br>24 mg/m <sup>3</sup>   | NIOSH REL |
|                 |          | TWA              | 50 ppm<br>240 mg/m <sup>3</sup> | OSHA Z1   |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

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### Personal protective equipment

- Eye protection : Safety goggles  
Face-shield
- Hand protection : Wear the following personal protective equipment:  
Standard glove type.  
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and 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 : Light yellow
- Odour : Pine
- Flash point : does not flash
- pH : 13, 100 %
- Odour Threshold : no data available
- Melting point/freezing point : FREEZING POINT: -6 °C
- 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 : 1.03 - 1.06, (16 °C),
- Density : 8.6 lb/gal
- Water solubility : completely soluble
- Solubility in other solvents : no data available
- Partition coefficient: n-octanol/water : no data available
- Auto-ignition temperature : no data available

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Thermal decomposition temperature : no data available  
Viscosity, dynamic : no data available  
Viscosity, kinematic : no data available  
Molecular weight : no data available  
VOC : 9.1 %, Calculation method

### 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 : Extremes of temperature  
Freezing temperatures.  
Incompatible materials : Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.  
Hazardous decomposition products : Decomposition products may include the following materials:  
Carbon oxides

### Section: 11. TOXICOLOGICAL INFORMATION

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

#### Potential Health Effects

Eyes : Causes serious eye damage.  
Skin : Causes severe skin burns.  
Ingestion : Causes digestive tract burns.  
Inhalation : May cause nose, throat, and lung irritation.  
Chronic Exposure : Health injuries are not known or expected under normal use.

#### Experience with human exposure

Eye contact : Redness, Pain, Corrosion  
Skin contact : Redness, Pain, Corrosion  
Ingestion : Corrosion, Abdominal pain  
Inhalation : Respiratory irritation, Cough

#### Toxicity

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|                                   |   |
|-----------------------------------|---|
| Acute oral toxicity               | : rat: 470 mg/kg  |
|                                   | Acute toxicity estimate : 4,518 mg/kg   |
| Acute inhalation toxicity         | : Acute toxicity estimate : > 40 mg/l<br>Exposure time: 4 h   |
| Acute dermal toxicity             | : rabbit: 220 mg/kg   |
|                                   | Acute toxicity estimate : > 5,000 mg/kg   |
| Skin corrosion/irritation         | : no data available   |
| Serious eye damage/eye irritation | : no data available   |
| Respiratory or skin sensitization | : no data available   |
| Carcinogenicity                   |   |
| IARC                              | 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.   |
| OSHA                              | No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.   |
| NTP                               | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.   |
| Reproductive effects              | : no data available   |
| Germ cell mutagenicity            | : no data available   |
| Teratogenicity                    | : Inhalation of butoxyethanol by pregnant rabbits caused some toxicity to the mothers and offspring at 200 ppm but not at 100 ppm or lower. Similar studies in pregnant rats caused maternal and fetal deaths at 100 and 200 ppm but not at 50 ppm or lower. No birth defects were noted. |
| STOT - single exposure            | : no data available   |
| STOT - repeated exposure          | : no data available   |
| Aspiration toxicity               | : no data available   |

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## Section: 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

### Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Ceriodaphnia dubia: 420 mg/l  
Exposure time: 48 h  
Test substance: Product

### Components

Toxicity to fish : Silicate  
LC50 Fish: 210 mg/l  
Exposure time: 96 h  
  
2-Butoxyethanol  
LC50 : 1,474 mg/l  
Exposure time: 96 h  
  
Substituted Alkyl Sulfate Salt  
LC50 : > 100 mg/l  
Exposure time: 96 h

### Components

Toxicity to algae : 2-Butoxyethanol  
EC50 : 911 mg/l  
Exposure time: 72 h  
  
Substituted Alkyl Sulfate Salt  
EC50 : > 100 mg/l  
Exposure time: 96 h

### Components

Toxicity to bacteria : 2-Butoxyethanol  
463 mg/l

### Components

Toxicity to fish (Chronic toxicity) : 2-Butoxyethanol  
NOEC: > 100 mg/l  
Exposure time: 21 d  
  
Substituted Alkyl Sulfate Salt  
NOEC: > 100 mg/l  
Exposure time: 28 d

### Components

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 2-Butoxyethanol  
NOEC: > 100 mg/l  
Exposure time: 21 d

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Substituted Alkyl Sulfate Salt  
NOEC: > 100 mg/l  
Exposure time: 28 d

## Persistence and degradability

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

Chemical Oxygen Demand (COD): 296,000 mg/l

Biochemical Oxygen Demand (BOD):

| Incubation Period | Value        | Test Descriptor |
|-------------------|--------------|-----------------|
| 5 h               | 285,000 mg/l | Product         |

## 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 be soluble or dispersible.

## Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

## Other information

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste: : D002

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.



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## 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 : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
Technical name(s) : SODIUM METASILICATE  
UN/ID No. : UN 3266  
Transport hazard class(es) : 8  
Packing group : III

### Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
Technical name(s) : SODIUM METASILICATE  
UN/ID No. : UN 3266  
Transport hazard class(es) : 8  
Packing group : III

### Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.  
Technical name(s) : Sodium Metasilicate Pentahydrate  
UN/ID No. : UN 3266  
Transport hazard class(es) : 8  
Packing group : II

## Section: 15. REGULATORY INFORMATION

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

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

**SARA 311/312 Hazards** : Acute 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:  
2-Butoxyethanol 111-76-2 5 - 10 %

### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D):

The following components are listed: Sulfated Castor Oil, Sodium Salt

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## California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 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)

### 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 or exempt from the Inventory of Existing Chemical Substances China (IECSC).

### JAPAN

This product contains substance(s) which are not in compliance with the Law Regulating the Manufacture and Importation Of Chemical Substances and are not listed on the Existing and New Chemical Substances list (ENCS).

### KOREA

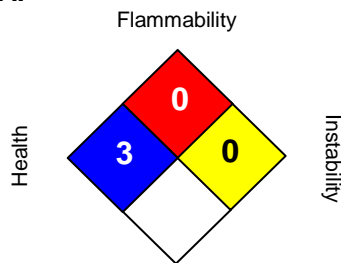
All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

### 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:



### HMIS III:

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date : 03/24/2016  
Version Number : 1.1  
Prepared By : Regulatory Affairs

## **SAFETY DATA SHEET**

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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](http://www.nalco.com) and request access.