

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 60510
 Other means of identification : Not applicable.
 Recommended use : BIOCIDES

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

Issuing date : 12/16/2020

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Organic peroxides : Type F
 Acute toxicity (Oral) : Category 4
 Acute toxicity (Inhalation) : Category 4
 Acute toxicity (Dermal) : Category 4
 Skin corrosion : Category 1
 Serious eye damage : Category 1
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system, Central Nervous System)

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Heating may cause a fire.
 Harmful if swallowed, in contact with skin or if inhaled.
 Causes severe skin burns and eye damage.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.

Precautionary Statements : **Prevention:**
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Keep/Store away from clothing and other combustible materials. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

SAFETY DATA SHEET

NALCO® 60510

POISON CENTER/doctor. 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.

Storage:

Protect from sunlight.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture	: Mixture		
Chemical Name		CAS-No.	Concentration: (%)
Acetic Acid		64-19-7	10 - 30
Hydrogen Peroxide		7722-84-1	10 - 30
Peroxyacetic Acid		79-21-0	10 - 30
Sulfuric Acid		7664-93-9	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. 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.
- 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 : May evolve oxides of carbon (COx) under fire conditions.

SAFETY DATA SHEET

NALCO® 60510

- firefighting : Strong oxidizer when water is removed. Combustibles may catch fire more easily after being wetted by product and dried. May intensify combustion of other materials.
Materials can initiate spontaneous combustion of paper, wood, cloth, and other organic materials. Ignition may be rapid, but can be delayed for several hours. Rapid oxygen evolution from decomposition may increase the intensity of a fire. Clothing may ignite on contact.
- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides
Oxygen
- Special protective equipment for firefighters : In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.
- 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 : 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.
- Environmental precautions : This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. 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. Isolate the waste do not allow it to come into contact with incompatible materials. For small spills contain with sand or vermiculite and dilute the contained product at least 10 times with water. Transfer to an open topped container and remove to a safe place for neutralization* / disposal. For large spills contain spill and evacuate the area, leave until the reaction subsides, then collect up for disposal. Obtain consent from the local water company / authority if considering discharge to sewer. *NEUTRALIZATION : once diluted, neutralize with a suitable alkali such as sodium bicarbonate. Combustible materials exposed to this product should be rinsed immediately with large amounts of water to ensure that all product is removed. Residual product which is allowed to dry on organic materials such as rags, cloths, paper, fabrics, cotton, leather, wood, or other combustibles may spontaneously ignite and result in a fire.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Do not get in eyes, on skin, on clothing. Do not take internally. Use with

SAFETY DATA SHEET

NALCO® 60510

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.

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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

- Conditions for safe storage : Store in suitable labeled containers. Store the containers tightly closed. Containers require venting bungs to avoid over pressure. Store separately from bases. 6 month shelf life under given storage conditions
Keep in a cool, well-ventilated place. Keep away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Pressure bursts may occur due to gas evolution if the container is not adequately vented.
- 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
Acetic Acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		STEL	15 ppm 37 mg/m3	NIOSH REL
		TWA	10 ppm 25 mg/m3	NIOSH REL
Hydrogen Peroxide	7722-84-1	TWA	10 ppm 25 mg/m3	OSHA Z1
		TWA	1 ppm	ACGIH
		TWA	1 ppm 1.4 mg/m3	NIOSH REL
Peroxyacetic Acid	79-21-0	TWA	1 ppm 1.4 mg/m3	OSHA Z1
		STEL (Inhalable fraction and vapor)	0.4 ppm	ACGIH
Sulfuric Acid	7664-93-9	TWA (Thoracic particulate matter)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

- Engineering measures : Use local exhaust ventilation or other engineering controls as necessary to control airborne mist and vapor.
Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Personal protective equipment

- Eye protection : Safety goggles

SAFETY DATA SHEET

NALCO® 60510

Hand protection	: Face-shield 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.

The Personal Protective Equipment (PPE) recommendations provided above have been made in good faith based on typical expected conditions of use. PPE selection should always be completed in conjunction with a proper risk assessment and in accordance with a PPE management program.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: colourless
Odour	: Pungent
Flash point	: > 100 °C
pH	: 1.0,(100 %)
Odour Threshold	: no data available
Melting point/freezing point	: Freezing Point: -29.9 °C
Initial boiling point and boiling range	: Decomposes on heating.
Evaporation rate	: no data available
Flammability (solid, gas)	: Not applicable.
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	: 1.11, (15.6 °C),
Density	: 9.14 lb/gal
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

SAFETY DATA SHEET

NALCO® 60510

Viscosity, kinematic : no data available
Molecular weight : no data available
VOC : 32 %, Calculation method

Section: 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : pressure build-up
Contamination may result in dangerous pressure increases - closed containers may rupture.

Possibility of hazardous reactions : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Conditions to avoid : Avoid extremes of temperature.
Avoid conditions which can lead to pressure build up (i.e. confinement within containers, pipelines, pumps or valves). Ensure adequate pressure relief systems.
Heat and contact with other materials can cause runaway decomposition with the evolution of large volumes of gas and the risk of pressure bursts. Minor contamination (<10ppm) will cause a slower rate of decomposition with adequate time and warning before significant pressure build up.
Dried product residue can act as an oxidizer.

Direct sources of heat.
Exposure to sunlight.

Incompatible materials : Bases
Contact with strong alkalis (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors.
Acids
Metals
Catalytic metals and their salts
Reducing agents
Organic materials

Hazardous decomposition products : In case of fire, hazardous decomposition products may be produced such as:
Carbon oxides
Liberates oxygen which supports combustion, heat, steam and noxious fumes.
High pressure can develop in sealed containers.

Section: 11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects

Eyes : Causes serious eye damage.

SAFETY DATA SHEET

NALCO® 60510

- Skin : Harmful in contact with skin. Causes severe skin burns.
- Ingestion : Harmful if swallowed. Causes digestive tract burns.
- Inhalation : May cause respiratory tract irritation. Harmful if inhaled. May cause nose, throat, and lung irritation. Inhalation may cause central nervous system effects.
- 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, Dizziness, Drowsiness

Toxicity

Product

- Acute oral toxicity : Acute toxicity estimate: 1,944 mg/kg
- Acute inhalation toxicity : LC50 rat: 4 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Test substance: Product
- Acute dermal toxicity : LD50 rabbit: 1,957 mg/kg
Test substance: Product
- Skin corrosion/irritation : no data available
- Serious eye damage/eye irritation : no data available
- Respiratory or skin sensitization : no data available
- Carcinogenicity
- IARC **Group 1: Carcinogenic to humans**
Sulfuric Acid 7664-93-9
- OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- NTP **Known to be human carcinogen**
Sulfuric Acid 7664-93-9
- Reproductive effects : no data available
- Germ cell mutagenicity : no data available
- Teratogenicity : no data available
- STOT - single exposure : no data available

SAFETY DATA SHEET

NALCO® 60510

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Product

Toxicity to fish : LC50 Plaice: 89.1 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Oncorhynchus mykiss (rainbow trout): 13 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 Lepomis macrochirus (Bluegill sunfish): 1.1 mg/l
Exposure time: 96 hrs
Test substance: Active Substance

LC50 Oncorhynchus mykiss (rainbow trout): 1 - 2 mg/l
Exposure time: 96 hrs
Test substance: Active Substance

NOEC Oncorhynchus mykiss (rainbow trout): < 10 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other aquatic invertebrates : LC50 Daphnia magna (Water flea): 3.3 mg/l
Exposure time: 48 hrs
Test substance: Product

LC50 Brown Shrimp: 126.8 mg/l
Exposure time: 96 hrs
Test substance: Product

NOEC Daphnia magna (Water flea): 1 mg/l
Exposure time: 48 hrs
Test substance: Product

NOEC Brown Shrimp: 56 mg/l
Exposure time: 96 hrs
Test substance: Product

Toxicity to algae : IC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 0.18 mg/l
Exposure time: 120 hrs
Test substance: Active Substance

Toxicity to fish (Chronic toxicity) : NOEC: 0.015 mg/l
Exposure time: 33 Days

SAFETY DATA SHEET

NALCO® 60510

Species: Zebra Danio
Test substance: Active Substance

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.05 mg/l
Exposure time: 21 Days
Species: Daphnia magna
Test substance: Active Substance
Test Type: 3 Brood

Components

Toxicity to bacteria : Peroxyacetic Acid
5.1 mg/l

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 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: : D001, D002
Disposal methods : Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for

SAFETY DATA SHEET

NALCO® 60510

guidance.

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.

The presence of an RQ component (Reportable Quantity for U.S. DOT) in this product causes it to be regulated with an additional description of RQ for road, or as Environmentally hazardous for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Land transport (DOT)

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID
Technical name(s) : PEROXYACETIC ACID
UN/ID No. : UN 3109
Transport hazard class(es) : 5.2, 8
Packing group : II
Reportable Quantity (per package) : 25,000 lbs
RQ Component : ACETIC ACID

Air transport (IATA)

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID
Technical name(s) : PEROXYACETIC ACID
UN/ID No. : UN 3109
Transport hazard class(es) : 5.2, 8
Packing group : II
Reportable Quantity (per package) : 25,000 lbs
RQ Component : ACETIC ACID

Sea transport (IMDG/IMO)

Proper shipping name : ORGANIC PEROXIDE TYPE F, LIQUID
Technical name(s) : PEROXYACETIC ACID
UN/ID No. : UN 3109
Transport hazard class(es) : 5.2, 8
Packing group : II

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.
No substances are subject to TSCA 12(b) export notification

SAFETY DATA SHEET

NALCO® 60510

requirements.

EPA Reg. No. : 68660-1-1706

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic Acid	64-19-7	5000	25000

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Peroxyacetic Acid	79-21-0	500	4166

SARA 311/312 Hazards : Organic peroxides
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)


SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Hydrogen Peroxide	7722-84-1
Peroxyacetic Acid	79-21-0
Sulfuric Acid	7664-93-9

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Peroxyacetic Acid	79-21-0	10 - 20 %
Sulfuric Acid	7664-93-9	1 - 5 %

California Prop. 65

 **WARNING:** Cancer - www.P65Warnings.ca.gov

Sulfuric Acid	7664-93-9
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INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory

On or in compliance with the active portion of the TSCA inventory

Australia. Australian Industrial Chemicals Introduction Scheme (AICIS)

All substances in this product comply with the Australian Industrial Chemicals Introduction Scheme (AICIS)

Canadian Domestic Substances List (DSL)

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.

SAFETY DATA SHEET

NALCO® 60510

Japan. ENCS - Existing and New Chemical Substances Inventory

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).

Korea. Korean Existing Chemicals Inventory (KECI)

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

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

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).

China Inventory of Existing Chemical Substances

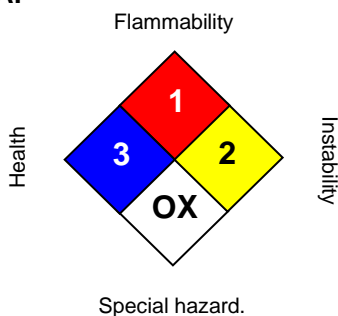
All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

Taiwan Chemical Substance Inventory

not determined

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	2

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

Revision Date : 12/16/2020
Version Number : 1.2
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 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.