



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

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® 1393T**

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 : 05.10.2010
 Version Number : 1.1

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)31-707 22 70 | Distributor 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 214121852 |
| NALCO APPLIED SERVICES OF EUROPE BV | +31 (0)73 6456980 | NTD S.r.l (IT) | +39 (0) 313351325 |
| NALCO BELGIUM BVBA | +32 (0)3-450 69 10 | Nalco Switzerland AG (CH) | +41 (0)52 235 38 38 |
| NALCO DANMARK ApS | +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.L. (E) | +34 93-4095555 | First Distributor: Nalco Czechia s.r.o. (CZ) | Hlavní 1222/60,141 00 Praha 4, Czech Republic,+420 267 912 350 & +420 272 913 512 |
| NALCO FINLAND OY (FI) | +358 (0)9 2519 5600 | Local Support: Nalco Hungary Kft. (HU) | +36 1 8805610 |
| NALCO FRANCE SAS | +33 (0)3 20 11 70 00 | Local Support: Nalco Österreich Ges.m.b.H., Representation Office Predstavništvo 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 Dudley, e-mail EUProductSafety@nalco.com

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION :

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

Irritating to skin. Risk of serious damage to eyes.

HUMAN HEALTH HAZARDS - ACUTE :

INHALATION :

Elevated temperatures or mechanical action may form vapors, mists or fumes which may be irritating to the eyes, nose, throat and lungs.



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

SKIN CONTACT :

Can cause moderate irritation.

EYE CONTACT :

Severely irritating. If not removed promptly, will injure eye tissue and may result in permanent eye damage.

INGESTION :

There may be irritation to the gastro-intestinal tract.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

| Hazardous Substance(s) | EINECS / ELINCS NO | CAS NO | SYMBOL | R-PHRASES / NOTAS | % (w/w) |
|------------------------------------|-----------------------|------------|--------|----------------------|---------|
| Phosphonic Acid | 237-066-7 | 13598-36-2 | C | R22, R35 | 1 - 5 |
| Hydroxyethylidenediphosphonic Acid | 220-552-8 | 2809-21-4 | Xi | R41 | 30 - 60 |

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

4. FIRST AID MEASURES

INHALATION :

First aid is normally not required. Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

SKIN CONTACT :

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

EYE CONTACT :

Get immediate medical attention. **PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT.** Immediately flush eye with water for at least 15 minutes while holding eyelids open.

INGESTION :

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

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 applicable

EXTINGUISHING MEDIA :

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of phosphorus (POx) under fire conditions.



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

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. 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 :

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. Do not take internally. 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.

STORAGE CONDITIONS :

Store in suitable labeled containers. Store the containers tightly closed. Store separately from oxidizers. Store separately from bases.

SUITABLE CONSTRUCTION MATERIAL :

Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

For specific dosages and customized applications please contact your representative.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

This product does not contain any substance that has an established exposure limit.

ENGINEERING MEASURES :

General ventilation is recommended. The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTION



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

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.

RESPIRATORY PROTECTION :

No exposure limits have been assigned to this product or its components. Nalco recommend the use of a half face filter mask or air supplied breathing apparatus. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: A-P The applicable European standard can be found in EN 140, EN 137, EN 143 and EN 14387. 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 gauntlets 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 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 :

When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended. The applicable European standard can be found in EN ISO 20345.

EYE PROTECTION :

Wear a face shield with chemical splash goggles. The applicable European standard can be found in EN 166.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|-------------------------|
| PHYSICAL STATE | Liquid |
| APPEARANCE | Clear Amber Brown |
| ODOR | Mild |
| FLASH POINT : | Not applicable |
| SPECIFIC GRAVITY | 1.4017 - 1.4317 (20 °C) |
| SOLUBILITY IN WATER | Complete |
| pH (100 %) | 2.0 |
| VISCOSITY | 27.7 cst (25.0 °C) |

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

10. STABILITY AND REACTIVITY

NALCO EUROPE B.V. Postbus 627 • 2300 AP Leiden • The Netherlands • 0031 71 5241100

For additional copies of an MSDS visit www.nalco.com and request access



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

STABILITY :

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Avoid extremes of temperature.

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., Bases, Contact with strong alkalies (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.

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon, Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

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).

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

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

PERSISTENCY AND DEGRADATION :

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

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.



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

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 05*- OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Organic wastes containing dangerous substances. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

NATIONAL REGULATIONS CZECH REPUBLIC

Valid and applicable waste legislation in the Czech Republic: Waste Act (No. 185/2001 Coll.), Packaging Act (No. 477/2001 Coll.) and the Decree of the Ministry of the Environment on the Catalogue of Wastes (No. 381/2001 Coll.), as amended

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 : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name(s) : | Hydroxyethylidenediphosphonic Acid |
| UN/ID No : | UN 3265 |
| Hazard Class - Primary : | 8 |
| Packing Group : | III |
| ADR/RID H.I.n. : | 80 |
| CLASSIFICATION CODE : | C3 |

AIR TRANSPORT (ICAO/IATA)

| | |
|---------------------------------------|---|
| Proper Shipping Name : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name(s) : | Hydroxyethylidenediphosphonic Acid |
| UN/ID No : | UN 3265 |
| Hazard Class - Primary : | 8 |
| Packing Group : | III |
| IATA Cargo Packing Instructions : | 820 |
| IATA Cargo Aircraft Limit : | 60 L (Max net quantity per package) |
| IATA Passenger Packing Instructions : | Y818 / 818 |
| IATA Passenger Aircraft Limit : | 1 L / 5 L |

MARINE TRANSPORT (IMDG/IMO)

| | |
|--------------------------|---|
| Proper Shipping Name : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical Name(s) : | Hydroxyethylidenediphosphonic Acid |
| UN/ID No : | UN 3265 |
| Hazard Class - Primary : | 8 |
| Packing Group : | III |

OTHER APPLICABLE INFORMATION

| | |
|----------------------------|--------------|
| CEFIC TREMCARD REFERENCE : | 80GC3-II+III |
|----------------------------|--------------|



SAFETY DATA SHEET

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

EMERGENCY ACTION CODE :

2X

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELLING :

GOVERNING DIRECTIVE(S): Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 1999/45/EC.

HAZARD SYMBOLS



IRRITANT

Contains:..Phosphonic Acid

RISK PHRASES

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

SAFETY PHRASES

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

NATIONAL REGULATIONS CZECH REPUBLIC

This preparation is classified as per Act on Chemical Substances and Chemical Preparations (No. 356/2003 Coll.)

This Safety Data Sheet is drawn up as per Act No. 356/2003 Coll. and per Act 371/2008 Coll.

Occupational exposure limits for the Czech Republic in section 8 are given as per Government's Regulation No. 178/2001 Coll. laying down conditions of health protection of employees at work

NATIONAL REGULATIONS HUNGARY

Relevant and applicable Hungarian legislation on protection of human health and the environment:
Decree 44/2000. (XII.27.) EüM (Minister of Health Affairs) and its amendments: Decree 33/2004. (IV.26.) ESzCsM (Minister of Health, Social and Family Affairs) and Decree 26/2007. (VI.7.) EüM (1907/2006/EK - REACH) on detailed rules of certain procedures and activities related to dangerous substances and preparations.
Joint Ministerial Decree: 25/2000. (IX.30.) EüM-ESzCsM on chemical safety at work.

INTERNATIONAL CHEMICAL CONTROL LAWS

EUROPE

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

**SAFETY DATA SHEET**

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

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)

16. OTHER INFORMATION

LIST OF RELEVANT R-PHRASES AND NOTAS IN SECTION 3

R22 - Harmful if swallowed.

R35 - Causes severe burns.

R41 - Risk of serious damage to eyes.

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.

EMERGENCY TELEPHONE NUMBER(S)

| | |
|--|--|
| 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 |
| Hungary | +36-30-9-506-447 |
| Italy / Italian Switzerland | +39-333-210-7947 |
| Latvia | +32-(0)3-575-5555 & Local emergency telephone number 112 |
| 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 |

NALCO EUROPE B.V. Postbus 627 • 2300 AP Leiden • The Netherlands • 0031 71 5241100

For additional copies of an MSDS visit www.nalco.com and request access

**SAFETY DATA SHEET**

PRODUCT

NALCO® 1393T

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

| | |
|----------------------------|---------------------|
| 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 |
| France | +33-(0)145-42-59-59 ORFILA |
| Hungary | +36-80-201-199 (ETTSZ, 1096 Budapest, Nagyvárad tér 2) |
| Latvia | + 371 67042473 |
| Slovak Republic | +421 (0)2 5477 4166 |

Prepared By : SHE Department

Date issued : 05.10.2010

Version Number : 1.1

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