

NALCO Water
An Ecolab Company

SAFETY DATA SHEET

3D TRASAR 3DT487

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 3D TRASAR 3DT487

Other means of identification : Not applicable.

Recommended use : COOLING WATER TREATMENT

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 : 07/06/2016

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals : Category 1
Skin corrosion : Category 1A
Serious eye damage : Category 1

GHS Label element

Hazard pictograms :



Signal Word : Danger

Hazard Statements : May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary Statements : **Prevention:**
Keep only in original container. 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): 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 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage:

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Store in corrosive resistant stainless steel container with a resistant inner liner.

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

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration: (%)
Phosphoric Acid	7664-38-2	5 - 10

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 nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Special protective equipment for firefighters : Use personal protective equipment.

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

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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. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
- Conditions for safe storage : Keep away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Suitable material : Keep in properly labelled containers. Keep in properly labelled containers.
- Unsuitable material : not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No	Form of exposure	Permissible concentration	Basis
Phosphoric Acid	7664-38-2	TWA	1 mg/m ³	ACGIH
		STEL	3 mg/m ³	ACGIH
		TWA	1 mg/m ³	NIOSH REL
		STEL	3 mg/m ³	NIOSH REL
		TWA	1 mg/m ³	OSHA Z1

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

Personal protective equipment

- Eye protection : Safety goggles
Face-shield

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- 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 : yellow
- Odour : None
- Flash point : Not applicable.
- pH : 1.3 - 2.0
- Odour Threshold : no data available
- Melting point/freezing point : Melting point/freezing point: -7.4 °C
- Initial boiling point and boiling range : 97.8 °C
- 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 : 1.223, (15.6 °C),
- Density : no data available
- Water solubility : Complete
- Solubility in other solvents : no data available
- Partition coefficient: n-octanol/water : no data available
- Auto-ignition temperature : no data available
- Thermal decomposition temperature : no data available
- Viscosity, dynamic : 16.5 mPa.s (23 °C)

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Viscosity, kinematic : no data available
 Molecular weight : no data available
 VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : Do not mix with bleach or other chlorinated products – will cause chlorine gas.
 Conditions to avoid : None known.
 Incompatible materials : Bases
 Strong oxidizing agents
 Hazardous decomposition products : Decomposition products may include the following materials:
 Carbon oxides
 nitrogen oxides (NO_x)
 Sulphur oxides
 Oxides of phosphorus

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**Product**

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Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
 Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l
 Exposure time: 4 h
 Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
 Skin corrosion/irritation : no data available
 Serious eye damage/cyc irritation : no data available
 Respiratory or skin sensitization : no data available
 Carcinogenicity : no data available
 Reproductive effects : no data available
 Germ cell mutagenicity : no data available
 Teratogenicity : no data available
 STOT - single exposure : no data available
 STOT - repeated exposure : no data available
 Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION**Ecotoxicity**

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 Fathead Minnow: 7,175 mg/l
 Exposure time: 96 hrs
 Test substance: Product

 NOEC Fathead Minnow: 3,600 mg/l
 Exposure time: 96 hrs
 Test substance: Product

 LC50 Rainbow Trout: > 10,000 mg/l
 Exposure time: 96 hrs
 Test substance: Product

 NOEC Rainbow Trout: 6,000 mg/l
 Exposure time: 96 hrs
 Test substance: Product

 Toxicity to daphnia and other aquatic invertebrates : EC50 Ceriodaphnia dubia: 1,103 mg/l
 Exposure time: 48 hrs
 Test substance: Product

 LC50 Ceriodaphnia dubia: 1,350 mg/l
 Exposure time: 48 hrs
 Test substance: Product

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NOEC Ceriodaphnia dubia: 313 mg/l
 Exposure time: 48 hrs
 Test substance: Product
 Test Type: Immobilization

NOEC Ceriodaphnia dubia: 625 mg/l
 Exposure time: 48 hrs
 Test substance: Product

Components

Toxicity to algae : Phosphoric Acid
 EC50 Desmodesmus subspicatus (green algae): > 100 mg/l
 Exposure time: 72 h

Persistence and degradability

Total Organic Carbon (TOC) : 12,000 mg/l

Chemical Oxygen Demand (COD): 240,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period	Value	Test Descriptor
5 d	400 mg/l	

Mobility

no data available

Bioaccumulative potential

no data available

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

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.

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)

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Proper shipping name : PHOSPHORIC ACID SOLUTION
 Technical name(s) :
 UN/ID No. : UN 1805
 Transport hazard class(es) : 8
 Packing group : III

Air transport (IATA)

Proper shipping name : PHOSPHORIC ACID SOLUTION
 Technical name(s) :
 UN/ID No. : UN 1805
 Transport hazard class(es) : 8
 Packing group : III

Sea transport (IMDG/IMO)

Proper shipping name : PHOSPHORIC ACID SOLUTION
 Technical name(s) :
 UN/ID No. : UN 1805
 Transport hazard class(es) : 8
 Packing group : III

Section: 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Phosphoric Acid	7664-38-2	5000	53850

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 : The following components are subject to reporting levels established by SARA Title III, Section 302:
 Hydrogen Peroxide 7722-84-1

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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.

SAFETY DATA SHEET**3D TRASAR 3DT487****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)

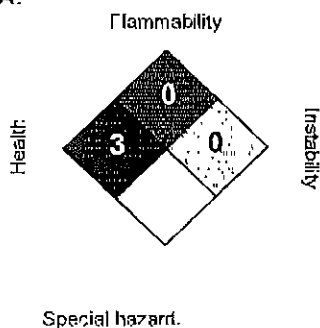
The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

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).

KOREA

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

Section: 16. OTHER INFORMATION**NFPA:****HMIS III:**

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

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

Revision Date : 07/05/2016
 Version Number : 1.4
 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.