



## 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 : 07/05/2016

**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 <sup>3</sup>	ACGIH
		STEL	3 mg/m <sup>3</sup>	ACGIH
		TWA	1 mg/m <sup>3</sup>	NIOSH REL
		STEL	3 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 mg/m <sup>3</sup>	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<sub>x</sub>)  
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)**

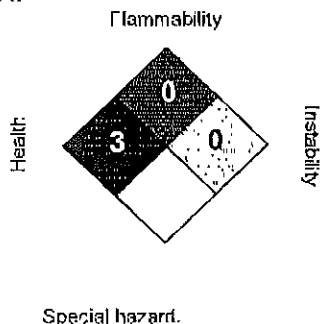
The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

**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:**

<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 : 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.

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