NALCO Water
An Ecolab Company

# SAFETY DATA SHEET

## 3D TRASAR™ 3DT260

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | 3D TRASAR™ 3DT260 |
| Other means of identification | : | Not applicable. |
| Recommended use | : | MULTIFUNCTIONAL 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<br>1601 W. Diehl Road<br>Naperville, Illinois 60563-1198<br>USA<br>TEL: (630)305-1000 |
| Emergency telephone number | : | (800) 424-9300 (24 Hours) CHEMTREC |
| Issuing date | : | 10/04/2017 |

## 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. Protect product from freezing.
**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Other hazards** : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No. | Concentration: (%) |
|---|---|---|
| 2-Phosphono-1,2,4-Butanetricarboxylic Acid | 37971-36-1 | 1 - 5 |
| Phosphonic acid ester | Proprietary | 1 - 5 |
| Substituted aromatic amine | 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 nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Special protective equipment for firefighters : Use personal protective equipment.

Specific extinguishing : Fire residues and contaminated fire extinguishing water must be disposed of in

methods | 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 : Keep away from strong bases. Keep out of reach of children. Keep container tightly closed. Store in suitable labelled containers. Protect product from freezing.

Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Brass, Buna-N, Polyethylene (rigid), Polypropylene (rigid), CPVC (rigid), Plasite 4300, Stainless Steel 316**, Chlorosulfonated polyethylene rubber, Fluoroelastomer

Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Neoprene, Polyurethane, EPDM, Plasite 7122

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|---|---|---|---|
| 2-Phosphono-1,2,4-Butanetricarboxylic Acid | 37971-36-1 | TWA (Aerosol.) | 10 mg/m3 | AIHA WEEL |

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

**Personal protective equipment**

Eye protection : Safety goggles
Face-shield

| | | |
|---|---|---|
| Hand protection | : | Wear the following personal protective equipment:<br>Standard glove type.<br>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 | : | no data available |
| Odour | : | odourless |
| Flash point | : | Not applicable. |
| pH | : | 1.6,(100 %) |
| Odour Threshold | : | no data available |
| Melting point/freezing point | : | FREEZING POINT: -3.9 °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 | : | 1.08, (25.0 °C), |
| Density | : | 1.08 g/cm3 , 9.0 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 |
| Thermal decomposition | : | no data available |
| Viscosity, dynamic | : | no data available |

| | | |
|---|---|---|
| Viscosity, kinematic | : | no data available |
| Molecular weight | : | no data available |
| VOC | : | 0 %, 0 g/l, EPA Method 24 |

## 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 | : | Freezing temperatures. |
| Incompatible materials | : | Strong bases |
| Hazardous decomposition products | : | Decomposition products may include the following materials:<br>Carbon oxides<br>nitrogen oxides (NOx)<br>Sulphur oxides<br>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**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg |
| Acute inhalation toxicity | : | no data available |
| Acute dermal toxicity | : | no data available |
| 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 | : | no data available |
| STOT - single exposure | : | no data available |
| STOT - repeated exposure | : | no data available |
| Aspiration toxicity | : | no data available |

**Components**

Acute dermal toxicity : Phosphonic acid ester
LD50 rabbit: > 10,000 mg/kg

Substituted aromatic amine
LD50 rabbit: > 10,000 mg/kg

## Section: 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Environmental Effects : This product has no known ecotoxicological effects.

**Product**

Toxicity to fish : LC50 Pimephales promelas (fathead minnow): 1,436 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

NOEC Pimephales promelas (fathead minnow): 156 mg/l
Exposure time: 96 hrs
Test substance: Product
Test Type: Static

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 Ceriodaphnia dubia: 884 mg/l<br>Exposure time: 48 hrs<br>Test substance: Product<br>Test Type: Static<br><br>NOEC Ceriodaphnia dubia: 625 mg/l<br>Exposure time: 48 hrs<br>Test substance: Product<br>Test Type: Static |

**Persistence and degradability**

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

Total Organic Carbon (TOC) : 80,000 mg/l

Chemical Oxygen Demand (COD): 210,000 mg/l

Biochemical Oxygen Demand (BOD):

| Incubation Period | Value | Test Descriptor |
|---|---|---|
| 5 d | 850 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. |

## 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, ACIDIC, ORGANIC, N.O.S. |
| Technical name(s) | : | Carboxylic acid, Phosphonic acid ester |
| UN/ID No. | : | UN 3265 |
| Transport hazard class(es) | : | 8 |
| Packing group | : | III |

**Air transport (IATA)**

| | | |
|---|---|---|
| Proper shipping name | : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical name(s) | : | Carboxylic acid, Phosphonic acid ester |
| UN/ID No. | : | UN 3265 |
| Transport hazard class(es) | : | 8 |
| Packing group | : | III |

**Sea transport (IMDG/IMO)**

| | | |
|---|---|---|
| Proper shipping name | : | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| Technical name(s) | : | Carboxylic acid, Phosphonic acid ester |
| UN/ID No. | : | UN 3265 |
| Transport hazard class(es) | : | 8 |
| Packing group | : | III |

## 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** | : | 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.

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** :

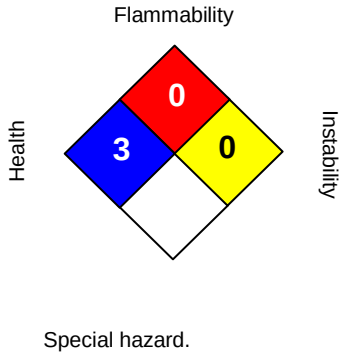
**United States TSCA Inventory**
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

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

**Taiwan Chemical Substance Inventory**
All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

## 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 | : | 10/04/2017 |
| Version Number | : | 1.3 |
| 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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