

**SAFETY DATA SHEET**

**3D TRASAR™ 3DT398**

**Section: 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 3D TRASAR™ 3DT398

Other means of identification : Not applicable.

Recommended use : COOLING WATER CORROSION INHIBITOR - ORGANIC COMPOUNDS

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 : 05/25/2022

**Section: 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin corrosion : Category 1  
 Serious eye damage : Category 1  
 Skin sensitization : Category 1  
 Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS Label element**

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.  
 May cause an allergic skin reaction.  
 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. 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.

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**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

**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: (%)
Modified benzimidazole salt	Proprietary	10 - 30
Organic Sulfonic Acid	Proprietary	10 - 30
Acetic Acid	64-19-7	10 - 30

### 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.

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- Hazardous combustion products : Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides
- 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 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 labelled containers.
- Suitable material : 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
Acetic Acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		ST	15 ppm 37 mg/m3	NIOSH REL
		TWA	10 ppm 25 mg/m3	NIOSH REL

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		TWA	10 ppm 25 mg/m <sup>3</sup>	OSHA Z-1
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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:  
Wear protective gloves.  
Impervious gloves, resistant to chemicals.  
Neoprene  
Nitrile rubber  
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 : clear dark brown

Odour : vinegar-like

Flash point : 98.60 °C, Method: ASTM D 93

pH : < 1.5, (25 °C), Method: ASTM E 70

Odour Threshold : no data available

Melting point/freezing point : Freezing Point: -16.50 °C, ASTM D-1177

Initial boiling point and boiling range : 102.0 °C, Method: ASTM D 1120-72

Evaporation rate : no data available

Flammability (solid, gas) : Not applicable.

Upper explosion limit : no data available

Lower explosion limit : no data available

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Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: 1.108, (25 °C),
Density	: no data available
Water solubility	: Miscible
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: log Pow: 1.89, Method: OECD Test Guideline 117, GLP: Yes, Active Substance
Auto-ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: 3.77 mm <sup>2</sup> /s (25 °C), Method: ASTM D 445
Molecular weight	: no data available
VOC	: no data available

#### Section: 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
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	: Strong bases
Hazardous decomposition products	: In case of fire, hazardous decomposition products may be produced such as: Carbon oxides nitrogen oxides (NO <sub>x</sub> ) Sulphur oxides

#### 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. May cause allergic skin reaction.
Ingestion	: Causes digestive tract burns.
Inhalation	: May cause respiratory tract irritation. May cause nose, throat, and lung irritation.

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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, Irritation, Corrosion, Allergic reactions  
Ingestion : Corrosion, Abdominal pain  
Inhalation : Respiratory irritation, Cough

#### Toxicity

##### Product

Acute oral toxicity : Acute toxicity estimate: 4,732 mg/kg  
Acute inhalation toxicity : no data available  
Acute dermal toxicity : Acute toxicity estimate: 4,970 mg/kg  
Skin corrosion/irritation : no data available  
Serious eye damage/eye irritation : no data available  
Respiratory or skin sensitization : no data available  
Carcinogenicity : no data available  
Reproductive effects : No toxicity to reproduction  
Germ cell mutagenicity : Contains no ingredient listed as a mutagen  
Teratogenicity : no data available  
STOT - single exposure : no data available  
STOT - repeated exposure : no data available  
Aspiration toxicity : No aspiration toxicity classification

### Section: 12. ECOLOGICAL INFORMATION

#### Toxicity

Environmental Effects : This product has no known ecotoxicological effects.

#### Product

Toxicity to fish : LC50 Fathead Minnow: 502 mg/l  
Exposure time: 96 hrs  
Test substance: Similar Product  
  
NOEC Fathead Minnow: 360 mg/l  
Exposure time: 96 hrs  
Test substance: Similar Product  
  
LC50 Rainbow Trout: 480 mg/l  
Exposure time: 96 hrs

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Test substance: Similar Product

NOEC Rainbow Trout: 360 mg/l  
Exposure time: 96 hrs  
Test substance: Similar Product

Toxicity to daphnia and other aquatic invertebrates : EC50 Ceriodaphnia dubia: 301 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product

LC50 Ceriodaphnia dubia: 369 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product

NOEC Ceriodaphnia dubia: 216 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product

EC50 Daphnia magna Straus: 400 mg/l  
Exposure time: 48 h

Toxicity to algae : NOEC Macrocytis pyrifera (brown algae): 25 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Reproduction

EC50 Macrocytis pyrifera (brown algae): 104 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Reproduction

EC25 / IC25 Macrocytis pyrifera (brown algae): 74.5 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Reproduction

NOEC Macrocytis pyrifera (brown algae): 25 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Growth

EC50 Macrocytis pyrifera (brown algae): 119 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Growth

EC25 / IC25 Macrocytis pyrifera (brown algae): 67.6 mg/l  
Exposure time: 48 hrs  
Test substance: Similar Product  
Test Type: Growth

ErC50 Desmodesmus subspicatus (green algae): 1,000 mg/l  
Exposure time: 48 h  
Test Type: Growth inhibition

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC25 / IC25: 66 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia  
Test substance: Similar Product  
Test Type: Reproduction

LOEC: 90 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia  
Test substance: Similar Product  
Test Type: Reproduction

NOEC: 45 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia  
Test substance: Similar Product  
Test Type: Reproduction

### Persistence and degradability

Chemical Oxygen Demand (COD): 610,000 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 contents/container in accordance 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, N.O.S.



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Technical name(s) : Organic Sulfonic Acid, Acetic Acid  
UN/ID No. : UN 1760  
Transport hazard class(es) : 8  
Packing group : III  
Reportable Quantity (per package) : 49,978 lbs  
RQ Component : Acetic Acid

### Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, N.O.S.  
Technical name(s) : Organic Sulfonic Acid, Acetic Acid  
UN/ID No. : UN 1760  
Transport hazard class(es) : 8  
Packing group : III  
Reportable Quantity (per package) : 49,978 lbs  
RQ Component : Acetic Acid

### Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, N.O.S.  
Technical name(s) : Organic Sulfonic Acid, Acetic Acid  
UN/ID No. : UN 1760  
Transport hazard class(es) : 8  
Packing group : III

## Section: 15. REGULATORY INFORMATION

**TSCA list** : The following substance(s) is/are subject to a Significant New Use Rule: Modified benzimidazole salt

The following substance(s) is/are subject to TSCA 12(b) export notification requirements: Modified benzimidazole salt

### 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	49978

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Respiratory or skin sensitisation  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Specific target organ toxicity (single or repeated exposure)

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

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**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.

### 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)

not determined

#### Japan. ENCS - Existing and New Chemical Substances Inventory

not determined

#### Korea. Korean Existing Chemicals Inventory (KECI)

not determined

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS)

not determined

#### China Inventory of Existing Chemical Substances

not determined

#### Taiwan Chemical Substance Inventory

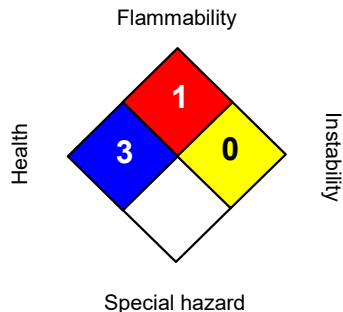
not determined

#### Canadian Domestic Substances List (DSL)

This product contains substance(s) which are not listed on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

### Section: 16. OTHER INFORMATION

#### NFPA:



#### HMIS III:

<b>HEALTH</b>	<b>3*</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

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

Revision Date : 05/25/2022

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Version Number : 1.5  
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](http://www.nalco.com) and request access.