

SAFETY DATA SHEET

3D TRASAR® 3DT179

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

| Product name | : | 3D TRASAR® 3DT179 | | | |
|-------------------------------|---|---|--|--|--|
| Other means of identification | : | Not applicable. | | | |
| Recommended use | : | CORROSION INHIBITOR | | | |
| 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 | : | 01/29/2015 | | | |

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

| Precautionary Statements | Prevention: Wash hands thoroughly after handling. Response: Specific measures: consult SDS Section 4. Storage: Store in accordance with local regulations. |
|--------------------------|--|
| | Store in accordance with local regulations. |

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

No hazardous ingredients

Section: 4. FIRST AID MEASURES

| In case of eye contact | Rinse with plenty of water. Get medical attention if symptoms occur.Wash off with soap and plenty of water. Get medical attention if |
|----------------------------|---|
| | symptoms occur. |
| If swallowed | : Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : Get medical attention if symptoms occur. |
| Protection of first-aiders | : In event of emergency assess the danger before taking action. Do |

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|---|--|
| | 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 | : | 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. |

Section: 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | : | Refer to protective measures listed in sections 7 and 8. |
|---|---|--|
| Environmental precautions | : | No special environmental precautions required. |
| 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

Section: 7. HANDLING AND STORAGE

| Advice on safe handling | : | For personal protection see section 8. Wash hands after handling. |
|-----------------------------|---|--|
| Conditions for safe storage | : | Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. |
| Suitable material | : | The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use. |
| Unsuitable material | : | not determinednot determined |

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

| Engineering measures | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. | |
|------------------------------|---|--|
| Personal protective equipmen | | |
| Eye protection | Safety glasses | |
| Hand protection | Wear protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. | |
| Skin protection | Wear suitable protective clothing. | |
| Respiratory protection | No personal respiratory protective equipment normally required. | |
| Hygiene measures | Wash hands before breaks and immediately after handling the product. | |

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance | : | Liquid |
|--|---|--|
| Colour | : | light yellow |
| Odour | : | odourless |
| Flash point | | > 93.3 °C |
| | • | Method: ASTM D 93, Pensky-Martens closed cup |
| | | |
| рН | : | 2.5 - 4.5, (25 °C) |
| Odour Threshold | : | no data available |
| Melting point/freezing point | : | FREEZING POINT: -8.3 °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 | : | 1.25 (25 °C) |
| Density | : | 10.4 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 temperature | : | no data available |
| Viscosity, dynamic | : | no data available |
| | | |
| Viscosity, kinematic | : | no data available |

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 | : | None known. |
| Incompatible materials | : | 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 | : | Carbon oxides nitrogen oxides (NOx) Sulphur oxides |

Section: 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of | : | Inhalation, Eye contact, Skin contact |
|---------------------------------|---|---------------------------------------|
| exposure | | |

Potential Health Effects

| Eyes | : | Health injuries are not known or expected under normal use. |
|----------------------------|-----|---|
| Skin | : | Health injuries are not known or expected under normal use. |
| Ingestion | : | Health injuries are not known or expected under normal use. |
| Inhalation | : | Health injuries are not known or expected under normal use. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |
| Experience with human expo | osu | re |
| Eye contact | : | No symptoms known or expected. |
| Skin contact | : | No symptoms known or expected. |
| Ingestion | : | No symptoms known or expected. |
| Inhalation | : | No symptoms known or expected. |
| Toxicity | | |

Product

| Acute oral toxicity | : LD50 rat: > 2,000 mg/kg Test substance: Similar Product | |
|-----------------------------------|--|--|
| Acute inhalation toxicity | : no data available | |
| Acute dermal toxicity | : LD50 rat: > 2,000 mg/kg Test substance: Similar Product | |
| Skin corrosion/irritation | : Species: Rabbit Exposure time: 72 hrs Result: No skin irritation Test substance:Similar Product | |
| | Species: Rabbit Exposure time: 72 hrs Result: 0.0 Method: Draize Test Test substance:Similar Product | |
| | Species: Rabbit Exposure time: 72 hrs Result: 0.0 Method: Oedema Test substance:Similar Product | |
| | Species: Rabbit Exposure time: 72 hrs Result: 0.0 Method: Erythema Test substance:Similar Product | |
| Serious eye damage/eye irritation | : no data available | |
| Respiratory or skin sensitization | : no data available | |
| Carcinogenicity | : no data available | |
| Reproductive effects | : no data available | |
| Germ cell mutagenicity | : Not mutagenic in Ames Test. | |
| 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 Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | LC50 Pimephales promelas (fathead minnow): > 1,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | LC50 Inland Silverside: > 5,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | NOEC Oncorhynchus mykiss (rainbow trout): 1,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | NOEC Pimephales promelas (fathead minnow): 1,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | NOEC Inland Silverside: 5,000 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | LC50 Fathead Minnow: > 10,000 mg/l Exposure time: 96 hrs Test substance: Product | | | |
| | | NOEC Fathead Minnow: 5,000 mg/l Exposure time: 96 hrs Test substance: Product | | | |
| Toxicity to daphnia and other aquatic invertebrates | : | LC50 Daphnia magna (Water flea): > 1,000 mg/l Exposure time: 48 hrs Test substance: Similar Product | | | |
| | | LC50 Mysid Shrimp (Mysidopsis bahia): 4,559 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | EC50 Daphnia magna (Water flea): > 1,000 mg/l Exposure time: 48 hrs Test substance: Similar Product | | | |
| | | NOEC Daphnia magna (Water flea): < 1,000 mg/l Exposure time: 48 hrs Test substance: Similar Product | | | |
| | | NOEC Mysid Shrimp (Mysidopsis bahia): 2,500 mg/l Exposure time: 96 hrs Test substance: Similar Product | | | |
| | | LC50 Ceriodaphnia dubia: 1,768 mg/l Exposure time: 48 hrs Test substance: Product | | | |

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| | NOEC Ceriodaphnia dubia: 1,250 mg/l Exposure time: 48 hrs Test substance: Product |
| Toxicity to algae | LC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 330 mg/l Exposure time: 96 hrs Test substance: Similar Product |
| | NOEC Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 150 mg/l Exposure time: 96 hrs Test substance: Similar Product |

Persistence and degradability

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

Total Organic Carbon (TOC): 97,000 mg/l

Chemical Oxygen Demand (COD): 230,000 mg/l

| Biochemical Oxygen Dema | nd (BOD): | |
|-------------------------|-----------|-----------------|
| Incubation Period | Value | Test Descriptor |
| 5 d | 750 mg/l | Similar 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 | : | 10 - 30% |
| Soil | : | 70 - 90% |

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 is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D. Disposal methods : Where possible recycling is preferred to disposal or

: 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.

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| | | | | | | | | | |
| — · | | | | . . | | _ | | | |

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 | : PRODUCT IS NOT REGULATED DURING TRANSPORTATION |
|--------------------------|---|
| Air transport (IATA) | |
| Proper shipping name | : PRODUCT IS NOT REGULATED DURING TRANSPORTATION |
| Sea transport (IMDG/IMO) | |
| Proper shipping name | : PRODUCT IS NOT REGULATED DURING TRANSPORTATION |

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 | : | No SARA Hazards |
|----------------------|---|---|
| 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.

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).

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

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

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).

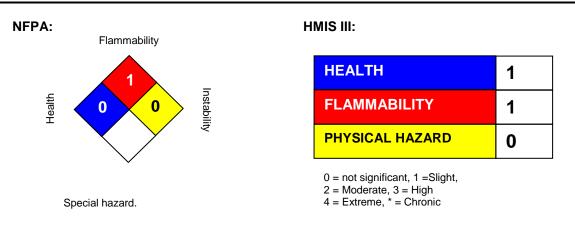
KOREA

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

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION



| Revision Date | : | 01/29/2015 |
|----------------|---|---------------------------|
| Version Number | : | 1.1 |
| 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

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