

3D TRASAR™ 3DT222

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: 3D TRASAR™ 3DT222

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

01/17/2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion

Category 1

Serious eye damage

Category 1

GHS Label element

Hazard pictograms

TE

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

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.

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.

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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 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 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/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1
Hydrochloric Acid	7647-01-0	Ceiling	2 ppm	ACGIH
		Ceiling	5 ppm 7 mg/m3	NIOSH REL
		С	5 ppm 7 mg/m3	OSHA Z1
Zinc Chloride	7646-85-7	TWA (Fumes)	1 mg/m3	OSHA Z1
		TWA (Fumes)	1 mg/m3	ACGIH

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		STEL (Fumes)	2 mg/m3	ACGIH
		TWA (Fumes)	1 mg/m3	NIOSH REL
		STEL (Fumes)	2 mg/m3	NIOSH REL
2-Phosphono-1,2,4-	37971-36-1	TWA (Aerosol.)	10 mg/m3	AIHA WEEL
Butanetricarboxylic Acid				

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:

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

Clear, yellow to amber

Odour

Acidic

Flash point

does not flash

Ha

< 1.60,(100 %)

Odour Threshold

no data available

Melting point/freezing point

Freezing Point: -11.67 °C

Initial boiling point and boiling :

range

no data available

Evaporation rate

по data available

Flammability (solid, gas)

no data available

Upper explosion limit Lower explosion limit

no data available

Vapour pressure

25.8 mm Hg, (37.8 °C),

Relative vapour density

no data available

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Relative density

1.114, (25.0 °C),

Density

1.102 g/cm3, 9.2 lb/gal

Water solubility

completely soluble

Solubility in other solvents

no data available

Partition coefficient: n-

no data available

octanol/water

no data available

Auto-ignition temperature Thermal decomposition

no data available

Viscosity, dynamic

20 mPa.s (25 °C)

Viscosity, kinematic

3.2 - 4 mm2/s (20 °C)

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

Extremes of temperature

Incompatible materials

Strong bases

Hazardous decomposition

products

In case of fire, hazardous decomposition products may be produced such as:

Carbon oxides

nitrogen oxides (NOx) Sulphur oxides

Oxides of phosphorus

HCI

Gives off hydrogen by reaction with metals.

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

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.

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Experience with human exposure

Eye contact Redness, Pain, Corrosion

Skin contact Redness, Pain, Corrosion

Ingestion Corrosion, Abdominal pain

Respiratory irritation, Cough Inhalation

Toxicity

Product

Acute oral toxicity no data available

no data available Acute inhalation toxicity Acute dermal toxicity no data available

Skin corrosion/irritation no data available no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available Carcinogenicity Reproductive effects no data available Germ cell mutagenicity no data available

no data available Teratogenicity STOT - single exposure no data available no data available STOT - repeated exposure

Aspiration toxicity

no data available

Components

Phosphoric Acid Acute oral toxicity

LD50 rat: > 2,600 mg/kg

Zinc Chloride LD50 rat: 740 mg/kg

2-Phosphono-1,2,4-Butanetricarboxylic Acid

LD50 rat: > 6,500 mg/kg

Components

Acute inhalation toxicity Hydrochloric Acid

> LC50 rat: 3789 ppm Exposure time: 4 h Test atmosphere: gas

Components

Phosphoric Acid Acute dermal toxicity

LD50 rabbit: > 2,000 mg/kg

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Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects Toxic to aquatic life with long lasting effects.

Product

Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout): 10.21 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Oncorhynchus mykiss (rainbow trout): 2.5 mg/l

Exposure time: 96 hrs
Test substance: Product

Toxicity to daphnia and other

aquatic invertebrates

: EC50 Ceriodaphnia dubia: 12.94 mg/l

Exposure time: 48 hrs
Test substance: Product

NOEC Ceriodaphnia dubia: 6.25 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

2-Phosphono-1,2,4-Butanetricarboxylic Acid

NOEC Desmodesmus subspicatus (green algae): 17.8 mg/l

Exposure time: 72 h

Persistence and degradability

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

Total Organic Carbon (TOC): 40,000 mg/l

Chemical Oxygen Demand (COD): 430,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period Value Test Descriptor

5 d 689 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;

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Air

<5% 30 - 50%

Water 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

The product should not be allowed to enter drains, water courses or the soil. 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.

The presence of an RQ component (Reportable Quantity for U.S. DOT) in this product causes it to be regulated with an additional description of RQ for road, or as Environmentally hazardous for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Land transport (DOT)

Proper shipping name Technical name(s)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Zinc Chloride, Hydrochloric Acid, Phosphoric Acid

UN/ID No.

UN 3264 8

Transport hazard class(es)

Packing group

Ш

Reportable Quantity (per

33,333 lbs

package)

RQ Component

ZINC CHLORIDE

Air transport (IATA)

Proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical name(s)

Zinc Chloride, Hydrochloric Acid, Phosphoric Acid

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UN/ID No. Transport hazard class(es) UN 3264

: 8

Packing group

111

Reportable Quantity (per

: 33,333 lbs

package)

RQ Component

ZINC CHLORIDE

Sea transport (IMDG/IMO)

Proper shipping name Technical name(s)

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Zinc Chloride, Hydrochloric Acid, Phosphoric Acid

UN/ID No.

UN 3264

Transport hazard class(es)

: 8

Packing group

: III

*Marine pollutant

Zinc Chloride

Section: 15. REGULATORY INFORMATION

TSCA list

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Zinc Chloride	7646-85-7	1000	33333

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Hydrochloric Acid	7647-01-0	5000	132030

SARA 311/312 Hazards

: Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302

Hydrochloric Acid

7647-01-0

SARA 313

The following components are subject to reporting levels established

by SARA Title III, Section 313:

Hydrochloric Acid

7647-01-0

1 - 5 %

Zinc Chloride

7646-85-7

1 - 5 %

^{*} Note: This product is regulated as a Marine Pollutant when shipped by Rail or Highway (in bulk quantities), and when shipped by water in all quantities.

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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

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

Australia. Industrial Chemical (Notification and Assessment) Act

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

Canadian Domestic Substances List (DSL)

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

Japan. ENCS - Existing and New Chemical Substances Inventory

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. Korean Existing Chemicals Inventory (KECI)

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

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

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).

China Inventory of Existing Chemical Substances

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).

Taiwan Chemical Substance Inventory

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

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Section: 16. OTHER INFORMATION

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NFPA:

Flammability

O Instability

Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date : 01/17/2019

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.