

# SAFETY DATA SHEET

## 1. Identification

Product Identifier Tri-Form ™ 1,3-D

Other Means of Identification: 1,3-Dichloropropene, D100

SDS Number 200A-ZAF-TAF

Recommended Use End-use pesticide fumigant

Recommended Restrictions: Use of this product requires trained personnel.

Supplier Name Trical Crop Protection Africa (Pty) Ltd

Address P. O. Box 46036

Durbanville, Cape Town, 7551, Republic of South Africa

 Telephone
 +27 861 111 998

 E-mail
 sds@trical.com

Emergency Phone Number FOR CHEMICAL EMERGENCY (Spill, Leak, Fire, Exposure, or Accident), Call

**CHEMTREC:** 

CHEMTREC (24 hours, within South Africa) 0 800 983 611

CHEMTREC (if outside South Africa) +1 703-527-3887 (collect calls accepted)

#### IN CASE OF POISONING, CALL THE FOLLOWING NUMBER:

Poison Information Helpline (24 hours/7 days a week) 0861 555 777

Category 2

# 2. Hazard(s) Identification

Physical Hazards Flammable Liquids Category 3 Health Hazards Acute Toxicity, oral Category 3 Acute Toxicity, inhalation Category 3 Acute Toxicity, dermal Category 3 Skin Irritation Category 2 Eye Irritation Category 2 Skin Sensitization Category 1

Carcinogenicity

STOT, Single Exposure Category 3 (respiratory)

Aspiration Hazard Category 1
Aquatic, Short-Term (acute) Category 1
Aquatic, Long-Term (chronic) Category 1

Additional GHS Classification for Product When it is Packaged in a Cylinder:

Physical Hazards Chemicals Under Pressure Category 2

Label Elements

**Environmental Hazards** 











Add this pictogram when product is packaged in a cylinder

Signal Word DANGER

Hazard Statements Flammable liquid and vapour. H226

Toxic if swallowed, in contact with skin, or if inhaled. H301, H311, H331

Causes skin irritation. H315

Causes serious eye irritation. H319

May cause an allergic skin reaction. H317

Suspected of causing cancer by the oral route. H351

May cause respiratory irritation. H335

May be fatal if swallowed and enters airways. H304

Very toxic to aquatic life with long lasting effects. H400, H410

Additional Hazard Statement When Product Packaged in a Cylinder

Flammable chemical under pressure: May explode when heated. H283

#### **Precautionary Statements:**

Prevention Obtain, read and follow all safety instructions before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to

prevent static discharges.

Avoid breathing gas or vapours.

Wear protective gloves, protective clothing, and eye protection. [See Section 8 of SDS]

Wash hands and face thoroughly after handling. Do not touch eyes.

Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment, [except for authorized use].

Response IF SWALLOWED: Get emergency medical help immediately. Rinse mouth. Do NOT

induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get

emergency medical help immediately.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Wash with

plenty of water. Wash contaminated clothing before reuse.

IF exposed or concerned, get medical advice.

If eye irritation or if skin irritation or rash occurs: get medical help.

Get medical help if you feel unwell.

In case of fire: Use dry sand, dry chemical or synthetic foams (including AFFF type)

or protein foam to extinguish.

Collect spillage.

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

locked up.

Disposal Dispose of contents and container in accordance with government regulations.

Additional Precautionary Statements When Product Packaged in Cylinder

Do not spray on an open flame or other ignition source.

In case of leakage, eliminate all ignition sources.

Stop leak if safe to do so.

Protect from sunlight. [This statement can be eliminated if product is packaged in a

cylinder.]

Hazard(s) Not Otherwise Classified (HNOC)

No data available.

## 3. Composition/Information on Ingredients

Chemical Name	Common Name and Synonyms	CAS Number	% by Weight
1,3-Dichloropropene	Dichloropropene, 13D	542-75-6	97.5 - 99.0
Soybean Oil, Epoxidized *	ESO	64742-47-8	1 - 2.5

<sup>\*</sup> The stabilizer does not contribute to the classification of this product.

## 4. First Aid Measures

General Advice First Aid responders should pay attention to self-protection and use recommended

protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation Move person to fresh air. If person is not breathing, call an emergency responder or

ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison center or doctor for treatment advice. If breathing is

difficult, oxygen should be administered by qualified personnel.

Skin Contact Take off immediately all contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison center or doctor for treatment advice. Wash

clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of properly. Suitable emergency safety shower facility should be

immediately available.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison center or doctor for treatment advice. Suitable emergency eye wash facility should be

immediately available.

Ingestion Seek medical attention immediately. Do NOT induce vomiting. Call a physician and/or

transport to emergency facility immediately.

Most Important Symptoms/Effects, Aside from the information found under description of First Aid Measures (above) and

Indication of Any Immediate Medical Attention and Special Treatment Needed (below), any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of Any Immediate Medical Attention and Special

Treatment Needed

Acute and Delayed

Notes to physician: Skin contact may aggravate preexisting dermatitis. Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Because rapid absorption may occur through the lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Animal data indicates that this material is a potential skin sensitiser. However, skin sensitisation has not been encountered among employees involved in the manufacture of this material. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

### 5. Fire-Fighting Measures

Suitable Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function. Water fog, applied gently may be used as a blanket for fire extinguishment.

Unsuitable Extinguishing Media

Specific Hazards Arising from the Substance or Mixture

Do not use water jet as an extinguisher, as this may not be effective to extinguish fire.

**Hazardous combustion products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: hydrogen chloride, carbon monoxide, carbon dioxide.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Electrically ground and bond all equipment. Flammable mixtures of this product are readily ignited even by static discharge. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash

back may occur. Flammable mixtures may exist within the vapour space of containers at room temperature. Flammable concentrations of vapour can accumulate at temperatures above flash point; see Section 9.

Firefighting Instructions/Equipment:

Fire Fighting Procedures

Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of re-ignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this SDS.

for Firefighters

Special Protective Equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

#### **Accidental Release Measures**

Personal Precautions. Protective Equipment, and **Emergency Procedures** 

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to section 7, Handling, for additional precautionary measures. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Vapour explosion hazard. Keep out of sewers. For large spills, warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Use appropriate safety equipment. For personal protection, see Section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up:

Ground and bond all containers and handling equipment. Pump with explosion-proof equipment. If available, use foam to smother or suppress. Contain spilled material if

Large Spills

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a noncombustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills

Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental Precautions** 

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

#### 7. Handling and Storage

Precautions for Safe Handling

Keep out of reach of children. Keep away from heat, sparks and flame. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour or mist. Do not swallow. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Never use air pressure for transferring product. No smoking, open flames or sources of ignition in handling and storage area. Containers, even those that have been emptied, can contain vapours. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. See Section 8, Exposure Controls/Personal Protection.

For additional information on equipment bonding and grounding, refer to the SANS 10123 "Control of Undesirable Static Electricity", International Electric Code (IEC), the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity".

Conditions for Safe Storage, Including Any Incompatibilities Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Avoid spark promoters. Eliminate sources of ignition, such as static build-up, heat, spark or flame. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Do not store in: zinc, aluminum, aluminum alloys, magnesium, magnesium alloys. Store in a dry place. Do not store near food, foodstuffs, drugs or potable water supplies.

# **Exposure Controls/Personal Protection**

Occupational Exposure Limits:

South Africa Hazardous Substance Regulations 1995:

Component	CAS No.	TWA	Value	Short Term	Value	Skin Notation
1,3-Dichloropropene	542-75-6	OEL-CL	1 ppm (5 mg/m3)	OEL-CL	10 ppm (50 mg/m3)	Can be absorbed via skin
US ACGIH Thresh	old Limit Valu	es				
1,3-Dichloropropene	542-75-6	TLV-TWA	1 ppm (5 mg/m3)			Can be absorbed via skin

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

**Exposure Controls:** 

Appropriate Engineering Controls

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

# Individual Protection Measures, Such as Personal Protective Equipment:

Eye/Face Protection

Wear safety glasses with side shields (or goggles). If exposure causes eye discomfort, use a full-face respirator.

Skin Protection:

Hand Protection

Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Ethyl vinyl alcohol laminate (EVAL), Viton. Examples of acceptable glove barrier materials include: Neoprene, Nitrile/butadiene rubber (nitrile or NBR). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Other

Wear appropriate chemical resistant clothing.

Respiratory Protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. The following should be effective types of air-purifying respirators: Organic vapour cartridge with a particulate pre-filter.

General Hygiene Considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

Appearance:

Physical State Liquid

Color Colorless to yellow

Odour Sweet

Odour Threshold No test data available

pH 6.5 1% CIPAC MT 75 (1% aqueous suspension)

Melting Point/Range Not applicable

Freezing Point No test data available Boiling Point (760 mmHg) 225 °F (107 °C)

Flash Point 81 °F (27 °C) Closed Cup EC Method A9

Evapouration Rate

Flammability (solid, gas)

Lower Flammability Limit

Upper Flammability Limit

Vapour Pressure

No test data available

No test data available

No test data available

23 mm Hg @ 20 °C (68 °F)

Vapour Density 3.8 (air =1)

Relative Density 1.21 @ 20 °C (68 °F) / 4 °C Pyknometre

Water Solubility Insoluble

Partition Coefficient log Pow: 1.82 – 2.1 Measured

(n-octanol/water)

Auto-Ignition Temperature None below 400 °C 92/69/EEC A15

Decomposition Temperature Not available

Dynamic Viscosity 0.66 mPa.s at 40 °C (104 °F) Kinematic Viscosity 0.636 mm2/s at 20 °C (68 °F)

Other Information:

Explosive Properties No data available
Oxidising Properties No data available

Liquid Density 1.211 g/cm3 @ 20 °C (68 °F) Digital density metre

## 10. Stability and Reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and

transport.

Chemical Stability Unstable at elevated temperatures.

Possibility of Hazardous Reactions Hazardous polymerization does not occur.

Conditions to Avoid Exposure to elevated temperatures can cause product to decompose. Generation of

gas during decomposition can cause pressure in closed systems. Avoid static

discharge.

Incompatible materials Avoid contact with: acids, bases, oxidisers. Avoid contact with metals such as: zinc, cadmium, magnesium, aluminum, aluminum alloys.

Hazardous Decomposition

**Products** 

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: carbon monoxide, carbon dioxide, hydrogen chloride. Toxic gases are released during decomposition. Decomposition products can include trace amounts of phosgene.

# 11. Toxicological Information

Information on Toxicological Effects:

Acute Oral Toxicity LD<sub>50</sub>, Rat, > 110 mg/kg

Moderate toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation.

Acute Dermal Toxicity  $LD_{50} = 333 \text{ mg/kg}, \text{ Rabbit}$ 

Prolonged or widespread skin contact may result in absorption of harmful amounts.

 $LC_{50} = > 2.7 - < 3.07 \text{ mg/L}, \text{ Rat, 4-hr, vapour}$ Acute Inhalation Toxicity

> Prolonged excessive exposure may cause serious adverse effects, even death. Excessive exposure may cause irritation to upper respiratory tract (nose and throat)

and lungs. Observations in animals include: Lethargy.

Skin Corrosion/Irritation Brief contact may cause moderate skin irritation with local redness.

May cause drying and flaking of the skin.

Serious Eye Damage/Eye

Irritation

May cause severe eye irritation. May cause slight corneal injury. Vapour may cause lacrimation (tears). Vapour may cause eye irritation experienced as mild discomfort

and redness.

Respiratory Sensitisation Not available

Skin Sensitisation Animal data indicate that 1,3-Dichloropropene is a potential skin sensitiser.

Specific Target Organ Toxicity May cause respiratory irritation.

Single Exposure

Specific Target Organ Toxicity In animals, effects have been reported on the following organs:

Repeated Exposure

Bladder, nasal tissue, liver, lung, gastrointestinal tract, respiratory tract, blood-forming

organs (bone marrow & spleen).

Germ Cell Mutagenicity In vitro genetic toxicity studies were negative in some cases and positive in other

cases. Animal genetic toxicity studies were negative.

Reproductive Toxicity In animal studies, did not interfere with reproduction.

Teratogenicity Did not cause birth defects or other effects in the fetus even at doses which caused

toxic effects in the mother.

Aspiration Hazard May be fatal if swallowed and enters airways.

Carcinogenicity: Has been shown to cause cancer in laboratory animals by the oral route. Inhalation

exposure resulted in an increase in normal occurrence of benign lung tumors in male

mice.

Classification Component List

1,3-Dichloropropene **IARC** Group 2B: Possibly carcinogenic to humans

**US NTP** Reasonably anticipated to be a human carcinogen

**ACGIH** A3: Confirmed animal carcinogen with unknown relevance to humans

#### 12. Ecological Information

Ecotoxicity:

Acute Toxicity to Fish Material is highly toxic to aquatic organisms on an acute basis

(LC<sub>50</sub>/EC<sub>50</sub> between 0.1 and 1 mg/L in the most sensitive species tested).

LC<sub>50</sub> = 2.78 mg/L, Oncorhynchus mykiss (rainbow trout), 96-hr LC<sub>50</sub> = 0.87 mg/L, Cyprinodon variegatus (sheepshead minnow), 96-hr

 $LC_{50} = 3.7 \text{ mg/L}$ , Lepomis macrochirus (bluegill sunfish), 96-hr

Acute Toxicity to Aquatic

Invertebrates

EC<sub>50</sub> = 3.58 mg/L, Daphnia magna (water flea), 48-hr

EC<sub>50</sub> = 0.64 mg/L, Crassostrea virginica (eastern oyster), 48-hr

Acute Toxicity to Algae/

Aquatic Plants

EC<sub>50</sub> = 14.9 mg/L, Pseudokirchneriella subcapitata (green algae), static test, 72-hr,

**Biomass** 

 $EC_{50} = 2.35 \text{ mg/L}$ , Navicula sp. (diatom), 120-hr, Biomass

 $EC_{50} = 14.56 \text{ mg/L}$ , Lemna gibba, 14 d,

Chronic Toxicity to Fish NOEC = 0.0318 mg/L, Pimephales promelas (fathead minnow), flow-through test, 33 d,

survival

Chronic Toxicity to Aquatic

Invertebrates

NOEC = 0.0701 mg/L, Daphnia magna (water flea), 21 d, number of offspring

Toxicity to Aboveground

Organisms

Material is moderately toxic to birds on an acute basis

(LD<sub>50</sub> between 51 and 500 mg/kg).

Material is practically non-toxic to birds on a dietary basis ( $LC_{50} > 5000$  ppm).

Oral LD<sub>50</sub> = 139.8 mg/kg, Colinus virginianus (Bobwhite quail), mortality, bodyweight.

Dietary LC<sub>50</sub> = > 6243 mg/kg diet, Anas platyrhynchos (Mallard duck)

Toxicity to Soil-Dwelling

Organisms

 $LC_{50} = 55.6$  mg/kg, Eisenia fetida (earthworms), 14 d

Persistence and Degradability:

Biodegradability Biodegradation may occur under aerobic conditions (in the presence of oxygen).

10-day Window: Fail

Biodegradation 4.9% Method: OECD Test Guideline 301D or Equivalent

Theoretical Oxygen Demand 1.281 mg/L
Biological Oxygen Demand 0.148 mg/L
Stability in Water (1/2-life) 2.3 – 4.75 d

Photodegradation 7 – 12 hr (Atmospheric 1/2-life)

Bioaccumulative Potential No data available for this product. For similar material(s): Bioconcentration potential is

low (BCF < 100 or Log Pow < 3).

Partition Coefficient: n-octanol /

Water (log Kow)

1.82 - 2.1 Measured

Mobility in Soil For similar material(s):

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient (Koc): 44.7 Measured

Other Adverse Effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone

creation potential, endocrine disruption, global warming potential) are expected.

# 13. Disposal Considerations

Disposal Instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

This material and its container must be disposed of as hazardous waste. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds,

waterways or ditches with chemical or used container. Dispose of contents/container

in accordance with local/regional/national/international regulations.

Local Disposal Regulations Dispose in accordance with all applicable regulations.

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe

manner (see Disposal Instructions).

Contaminated Packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not clean drum with caustic agents or lye. Since emptied containers may

retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

In accordance with National Road Traffic Act No. 93 of 1996 as amended; Dangerous Goods Regulations of IATA; and IMDG Code criteria.

#### Road / Rail / IATA (Air) / IMDG (Water)

UN Number UN2903

UN Proper Shipping Name Pesticides, liquid, toxic, flammable, n.o.s. (1,3-Dichloropropene)

Hazard Class 6.1 (Toxic)

Subsidiary Risk 3 (Flammable Liquid)

Packing Group II

Environmental Hazards for 1,3-Dichloropropene (acute and chronic aquatic toxicity) - Marine Pollutant Transport Purposes:  $[LC_{50}$ : 0.87 mg/L, 96-hr, Cyprinodon variegatus (sheepshead minnow)]

Marine Pollutant 1,3-Dichloropropene

Reportable Quantity (RQ) 1,3-Dichloropropene (100 lbs) [USA requirement]

Transport in Bulk Consult IMO regulations before transporting ocean bulk

ERG 131 [USA requirement]

Hazchem Code 3WE

Hazard Identification Number (HIN) is 663/63

## 15. Regulatory Information

Republic of South Africa Occupational Health and Safety Act No. 85 of 1993 (amended 2002)

Hazardous Chemical Substances Regulations, 1995 National Road Traffic Act No. 93 of 1996 as amended

Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act No. 36 of

1947 as amended.

<u>US Federal Regulations</u> This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

<u>US TSCA Inventory (TSCA)</u> Listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard Categories:

SARA 311 and 312 Hazardous Chemical - Yes

SARA Hazard Categories - For Tier II reporting, see Physical and Health hazards in Section 2 of this SDS.

SARA 313 (Toxic Release Inventory Reporting)

Chemical Name	CAS Number	
1,3-Dichloropropene	542-75-6	

### **US State Regulations:**

US. Massachusetts RTK - Substance List

1,3-Dichloropropene (CAS 542-75-6)

US. Pennsylvania RTK - Hazardous Substances and Special Hazardous Substances

1,3-Dichloropropene (CAS 542-75-6)

US. New Jersey Worker and Community Right-to-Know Act

1,3-Dichloropropene (CAS 542-75-6)

US. Rhode Island RTK

1,3-Dichloropropene (CAS 542-75-6)

US. California Proposition 65



**WARNING**: This product can expose you to chemicals, including 1,3-Dichloropropene (CAS 542-75-6), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

International Inventories 1-3, Dichloropropene (CAS 542-75-6)

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada		
	Inventory of Existing Chemical Substances in China (IECSC)	
	European Inventory of Existing Commercial Chemical Substa	
Europe	European List of Notified Chemical Substances (ELINCS)	No
	Inventory of Existing and New Chemical Substances (ENCS)	
	Existing Chemicals List (ECL)	
	National Inventory of Chemical Substances (INSQ)	
	New Zealand Inventory (NZIoC)	
	Philippine Inventory of Chemicals and Chemical Substances	
	Chemical Substance Inventory (TCSI)	
	co Toxic Substances Control Act (TSCA) Inventory	

<sup>\*</sup> A "Yes" indicates this product complies with inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Version 1 Date: 31 January 2024

Revision History: 31-01-2024 Initial version

NFPA Rating:



NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### **ABBREVIATIONS:**

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations
CHEMTREC	Chemical Transportation Emergency Center
EC <sub>50</sub>	Half Maximal Effective Concentration - concentration of a material in water, a single dose which is expected to cause a biological effect on 50% of a group of test species.
ERG	Emergency Response Guide [USA]
IARC	International Agency for Research on Cancer
IMDG	International Maritime Dangerous Goods
LC <sub>50</sub>	Lethal Concentration - median dose at which 50% of test animals die from inhalation
LD <sub>50</sub>	Lethal Dose - median dose at which 50% test animals die from oral or dermal exposure
NFPA	National Fire Protection Association
NOEC	No Observed Effect Concentration
NTP	National Toxicology Program
OSHA	Occupational Health and Safety Administration
ppm	part(s) per million
RTK	Right to Know
TWA	Time Weighted Average airborne concentration for a worker in an 8-hour day

#### **Key Literature References and Sources of Data:**

- National Library of Medicine PubChem Hazardous Substance Data Base
- Pesticide Properties Database
- ECHA Information on Chemicals database
- · Manufacturer Safety Data Sheet

# **WARRANTY**

Notice: The information above is believed to be accurate and represents the best information currently available to us. Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.