

Tribolt UniTech

Revision: 1.0 US

Issuing date: 01.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

<u>Product identifier on label</u>	Tribolt UniTech
<u>Use</u>	Fungicide
<u>Supplier or Manufacturer</u>	Aquatrols Corporation of America 1273 Imperial Way Paulsboro, NJ 08066 Phone number: 1-856-537-6003
<u>Emergency telephone</u>	FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Classification Acute toxicity (oral, inhalation): Category 4

Signal Word (OSHA) Warning

Hazard Statements Harmful if swallowed or if inhaled.

Hazard Symbols

Precautionary Statements

Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing mist and spray.
Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
Dispose of contents and container in accordance with local regulations.

Other hazard statements No other hazards known.

SECTION 3: Composition/information on ingredients

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS Number</u>	<u>Concentration</u>
1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl) butanone	Triadimefon	43121-43-3	43.00%
UniTech	Trade Secret	Trade Secret	≤5%
Other Inert Ingredients	Trade Secret	Trade Secret	≥52%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: First aid measures

Have the product container, label, or Safety Data Sheet with you when calling a poison control center, or doctor, or going for medical treatment. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: If inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center (1-800-222-1222) or doctor immediately.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center (1-800-222-1222) or doctor immediately.

Skin Contact: If on skin or clothing: Remove contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a poison control center (1-800-222-1222) or doctor immediately.

Ingestion: If swallowed: Call a poison control center (1-800-222-1222) immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless told to do so by a medical professional. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms/effects: Hyperactivity followed by sedation

Indication of immediate medical attention and special treatment needed:

Appropriate supportive and symptomatic treatment is indicated by the patient's condition is recommended.
There is no specific antidote.

SECTION 5: Firefighting measures**Suitable (and unsuitable) extinguishing media**

Recommended extinguishing media: water, carbon dioxide (CO₂), dry chemical, foam

Special hazards arising from the substance or mixture

Dangerous gases are evolved in the event of a fire.

Special protective equipment and precautions for firefighters

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains and water courses. Evacuate nonessential personnel from the area.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

Environmental precautions

Do not allow spills to enter drains or watercourses.

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Methods and materials for containment and cleaning up

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated area thoroughly with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Do not use solvents. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition. Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

SECTION 7: Handling and storage
Precautions for safe handling

Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the restroom or applying cosmetics. Remove personal protective equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices.

Conditions for safe storage, including any incompatibilities

Store this material in a locked storage area. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food and feed. Store in original container and out of reach of children, tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles.

SECTION 8: Exposure controls/personal protection

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of this product.

For commercial applications and/or on-farm applications consult the product label.

Control Parameters

Component Name	Control Parameters
Triadimefon (79622-59-6):	TWA 0.7mg/m ³ ST ESL 100 ug/m ³ AN ESL 10 ug/m ³
Glycerine (56-81-5):	PEL 15 mg/m ³ (total dust.); 5 mg/m ³ (respirable fraction.) TWA 5 mg/m ³ (respirable fraction.); 10 mg/m ³ (total dust.); 10 mg/m ³ (total dust and mist); 5 mg/m ³ (respirable fraction and dust or fume.) ST ESL 50 ug/m ³ (particulate.); 1000 ug/m ³ (vapor.) AN ESL 5 ug/m ³ (particulate.); 100 ug/m ³ (vapor.)

Appropriate engineering controls: Use effective engineering controls to comply with occupational exposure limits (if applicable)

Exposure controls

Personal protective equipment: In normal use and handling conditions please refer to the label. In all other cases the following recommendations would apply.

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Respiratory	When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.
Eyes	Safety glasses with side shields. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Skin	Chemical resistant nitrile rubber gloves. Wear long sleeved shirt and long pants, coveralls, socks and chemical-resistant footwear.
Ingestion	Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SECTION 9: Physical and chemical properties

Appearance	Off-white liquid
Odor	Characteristic
Odor threshold	Not Measured
pH (10% in DI water)	6.5
Melting point/freezing point (C)	Not measured
Initial boiling point and boiling range (C)	Not measured
Flash Point	Not measured
Evaporation rate (Ether = 1)	Not measured
Flammability (solid, gas)	Not measured
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not measured
Vapor pressure (Pa)	Not measured
Vapor density	Not measured
Specific Gravity	1.13-1.15
Partition coefficient n-octanol/water (Log Kow)	Not measured
Auto-ignition temperature (C)	Not measured
Decomposition temperature (C)	Not measured
Viscosity (cSt)	750-1000 cPs
VOC%	Not measured

Other information No other relevant information.

SECTION 10: Stability and reactivity

Reactivity	Not chemically reactive.
Chemical stability	Stable under normal use and storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Extremes of temperature and direct sunlight.
Incompatible materials	No data available.
Hazardous decomposition products	No decomposition products expected under normal conditions of use.

SECTION 11: Toxicological information**Health Effects Information**

Exposure routes: Ingestion, inhalation, eye contact, skin absorption

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Immediate effects: Eye: Mild eye irritation.
 Skin: Harmful if absorbed through skin. Slight irritation.
 Ingestion: Harmful if swallowed.
 Inhalation: Harmful if inhaled.

Information on toxicological effects

Acute oral toxicity: LD50 (female rat) 1750 mg/kg
 Acute inhalation toxicity: LC50 (male/female combined rat) > 2.1 mg/l
 Exposure time: 4 h
 Determined in the form of liquid aerosol
 Highest concentration tested (actual)
 LC50 (male/female combined rat) > 8.4 mg/l
 Exposure time: 1 h
 Determined in the form of liquid aerosol.
 Extrapolated from the 4 h LC50. (actual)
 Acute dermal toxicity: LD50 (male/female combined rat) > 5000 mg/kg
 Skin irritation: Slight irritation (rabbit)
 Eye irritation: Mild eye irritation (rabbit)
 Sensitization: Non-sensitizing (guinea pig)

Assessment repeated dose toxicity Triadimefon did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity Triadimefon was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity Triadimefon was not carcinogenic in a lifetime feeding study of rats. Triadimefon caused an increased incidence of tumors in mice in the following organ(s): liver. The mechanism that triggers these tumors is not relevant to humans.

Assessment toxicity to reproduction Triadimefon caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. Triadimefon caused reduced fertility, a reduced pup survival.

Assessment developmental toxicity Triadimefon caused developmental toxicity only at dose levels toxic to the dams. Triadimefon caused an increased incidence of non-specific malformations.

Further information Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient.

ACGIH	None
NTP	None
IARC	None
OSHA	None

SECTION 12: Ecological information

The information presented here is for the active ingredient, triadimefon.

Toxicity to fish LC50 (Oncorhynchus mykiss (Rainbow trout)) 4.08 mg/l
 Exposure time: 96 h
 The value mentioned relates to the active ingredient triadimefon.

Toxicity to aquatic invertebrates EC50 (Water flea (Daphnia magna)) 7.16 mg/l
 Exposure time: 48 h
 The value mentioned relates to the active ingredient triadimefon.

Toxicity to aquatic plants IC50 (pseudokirchneriella subcapitata) 2.01 mg/l
 Exposure time: 120 h
 The value mentioned relates to the active ingredient triadimefon.

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Biodegradability	Triadimefon: not rapidly biodegradable
Koc	Triadimefon: Koc: 150-510
Bioaccumulation	Triadimefon: Bioaccumulation factor (BCF) 31; Does not bioaccumulate.
Mobility in Soil	Triadimefon: Moderately mobile in soils
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

SECTION 13: Disposal considerations**Waste treatment methods**

Product	Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.
Contaminated packaging	Do not re-use empty containers. Triple rinse containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by state/provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on the product label.
RCRA Information	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon federal, state and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: Transport information

49CFR Not dangerous goods / not hazardous material

IMDG

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Triadimefon Solution)

IATA

UN number	3082
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	Environmentally Hazardous Substance, Liquid, N.O.S. (Triadimefon Solution)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: Regulatory information

Pesticide Registration: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Warning: Causes skin irritation. Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled or swallowed. Do not get on skin or clothing. Avoid contact with eyes. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the restroom. Remove contaminated clothing and wash clothing before reuse. Do not take internally.

EPA Registration Number: 94396-33

US Federal Regulations

TSCA list Glycerine (CAS# 56-81-5)
US Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D) None.
SARA Title III – Section 302- Notification and Information None.
SARA Title III – Section 313 – Toxic Chemical Release Reporting Triadimefon (CAS# 43121-43-3); 25,000 lbs

US States Regulatory Reporting

CA Prop 65 This product contains a chemical known to the State of California to cause birth defects of other reproductive harm:
 Triadimefon (CAS# 43121-43-3): Developmental toxin.
 Triadimefon (CAS# 43121-43-3): Male reproductive toxin.
 Triadimefon (CAS# 43121-43-3): Female reproductive toxin.
US State Right-To-Know Ingredients Triadimefon (CAS# 43121-43-3): NJ
 Glycerine (CAS# 56-81-5): MN

Canadian Regulations

Canadian Domestic Substances List Glycerine (CAS# 56-81-5)

Environmental

CERCLA None.
Clean Water Section 307 Priority Pollutants None.
Safe Drinking Water Act Maximum Contaminant Levels None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)
 Triadimefon (CAS# 43121-43-3)
 Glycerine (CAS# 56-81-5)

EPA/FIFRA Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workforce labels of non-pesticide chemicals. Following is the hazard information required on the label:

Signal Word: Caution!

Hazard Statements: Harmful if swallowed, inhaled or absorbed through the skin.
 Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
 Avoid breathing dust or spray mist.
 Avoid contact with skin, eyes and clothing.
 Wash thoroughly with soap and water after handling.
 Remove and wash contaminated clothing before reuse.

SECTION 16: Other information**HMIS Hazard Rating**

Health	2
Flammability	1
Reactivity	0

NFPA Hazard Ratings

Health	2
Flammability	1
Reactivity	0

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.