

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

### SECTION 1. IDENTIFICATION

Product name : Tetrino  
Product code : Article/SKU: 86797658 UVP: 84500089 Specification: 102000032078

#### Manufacturer or supplier's details

Company name of supplier : Environmental Science U.S. LLC.  
Address : 5000 Centregreen Way, Suite 400  
Cary NC 27513  
Telephone : 1-800-331-2867  
Emergency telephone : +1 703-741-5970  
E-mail address : uscontact@envu.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide  
Restrictions on use : See product label for restrictions.

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Chemical nature : Suspension concentrate (=flowable concentrate)(SC)

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Glycerine	56-81-5	>= 10 - < 20
Tetraniliprole	1229654-66-3	>= 1 - < 5
Propylene glycol	57-55-6	>= 1 - < 5
2-Propanol, reaction products with naphthalene, sulfonated, sodium	1322-93-6	>= 1 - < 5

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

salts		
-------	--	--

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.  
Get medical attention if symptoms occur.
- In case of skin contact : Wash with water and soap as a precaution.  
Get medical attention if symptoms occur.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention if symptoms occur.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- Notes to physician : Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire fighting : Vapors may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Chlorine compounds  
Fluorine compounds  
Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides  
Metal oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

---

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g., by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

---

### SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid prolonged or repeated contact with skin.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Gases

---

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL

**Engineering measures** : Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

#### Personal protective equipment

**Respiratory protection** : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0.4 mm  
Protective index : Class 6

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

**Eye protection** : Wear the following personal protective equipment:  
Safety glasses

**Skin and body protection** : Skin should be washed after contact.

**Hygiene measures** : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.  
When using do not eat, drink or smoke.  
Wash contaminated clothing before re-use.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white, beige
Odor	:	slight, soapy
Odor Threshold	:	No data available
pH	:	4 - 5 (73 °F / 23 °C) Concentration: 100 %
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	> 201 °F / > 94 °C Method: ASTM D 93, closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	ca. 1.05 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies) Water solubility	:	dispersible
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

---

Viscosity  
Viscosity, dynamic : 352 - 950 mPa.s (68 °F / 20 °C)  
Viscosity, kinematic : No data available  
Flow time : 45 - 55 s (68 °F / 20 °C)  
Explosive properties : Not explosive  
Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Minimum ignition energy : Not applicable  
Particle size : <= 10 µm

---

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : Vapors may form explosive mixture with air.  
Can react with strong oxidizing agents.  
Conditions to avoid : None known.  
Incompatible materials : Oxidizing agents  
Hazardous decomposition products : No hazardous decomposition products are known.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method  
Acute inhalation toxicity : Acute toxicity estimate: 59.03 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

---

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

### **Components:**

#### **Glycerine:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Guinea pig): > 5,000 mg/kg

#### **Tetraniliprole:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 5.01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **Propylene glycol:**

Acute oral toxicity : LD50 (Rat): 22,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 44.9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:**

Acute oral toxicity : LD50 (Rat): > 453 - 1,368 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): 1.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male): > 2,000 mg/kg  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

### **Skin corrosion/irritation**

Not classified based on available information.

#### **Components:**

##### **Glycerine:**

Species : Rabbit  
Result : No skin irritation

##### **Tetraniliprole:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **Propylene glycol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:**

Species : Rabbit  
Result : No skin irritation

### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Product:**

Species : Rabbit  
Result : No eye irritation

#### **Components:**

##### **Glycerine:**

Species : Rabbit  
Result : No eye irritation

##### **Tetraniliprole:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

##### **Propylene glycol:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

##### **2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:**

Species : Rabbit



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

||Result : Irreversible effects on the eye

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### Product:

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Result : Does not cause skin sensitization.

#### Components:

##### Tetraniliprole:

||Test Type : Local lymph node assay (LLNA)  
||Routes of exposure : Skin contact  
||Species : Mouse  
||Method : OECD Test Guideline 429  
||Result : positive

||Assessment : Probability or evidence of low to moderate skin sensitization rate in humans

##### Propylene glycol:

||Test Type : Maximization Test  
||Routes of exposure : Skin contact  
||Species : Guinea pig  
||Result : negative

##### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### Glycerine:

||Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Result: negative  
  
Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Result: negative  
  
Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

### Tetraniliprole:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 474  
Result: negative

### Propylene glycol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

### Carcinogenicity

Not classified based on available information.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

### Components:

#### **Glycerine:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

#### **Tetraniliprole:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 104 weeks  
Method : OECD Test Guideline 453  
Result : negative

#### **Propylene glycol:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

Not classified based on available information.

### Components:

#### **Glycerine:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### **Tetraniliprole:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 416

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

Result: negative  
Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

### Propylene glycol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative

### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

### STOT-single exposure

Not classified based on available information.

### Components:

#### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Not classified based on available information.

### Components:

#### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Assessment : No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

### Repeated dose toxicity

#### Components:

##### **Glycerine:**

Species	: Rat
NOAEL	: 0.167 mg/l
LOAEL	: 0.622 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 13 Weeks

Species	: Rat
NOAEL	: 8,000 - 10,000 mg/kg
Application Route	: Ingestion
Exposure time	: 2 y

Species	: Rabbit
NOAEL	: 5,040 mg/kg
Application Route	: Skin contact
Exposure time	: 45 Weeks

##### **Tetraniliprole:**

Species	: Rat, male
NOAEL	: 159 mg/kg
LOAEL	: 741 mg/kg
Application Route	: Ingestion
Exposure time	: 24 Months
Method	: OECD Test Guideline 453

Species	: Rat
NOAEL	: >= 1,000 mg/kg
Application Route	: Skin contact
Exposure time	: 28 Days
Method	: OECD Test Guideline 410

##### **Propylene glycol:**

Species	: Rat, male
NOAEL	: >= 1,700 mg/kg
Application Route	: Ingestion
Exposure time	: 2 y

##### **2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:**

Species	: Rat
NOAEL	: 100 mg/kg
LOAEL	: 300 mg/kg
Application Route	: Ingestion
Exposure time	: 36 - 52 Days
Method	: OECD Test Guideline 422

Species	: Rat
NOAEL	: 0.004 mg/l
LOAEL	: 0.01 mg/l

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

Application Route : inhalation (dust/mist/fume)  
Exposure time : 90 Days  
Method : OECD Test Guideline 413

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Glycerine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,955 mg/l  
Exposure time: 48 h

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16 h  
Method: DIN 38 412 Part 8

##### **Tetraniliprole:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.1733 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 1.49 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 0.429 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 2.50 mg/l  
Exposure time: 33 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Chironomus riparius (harlequin fly)): 0.00071 mg/l  
Exposure time: 28 d

Toxicity to microorganisms : NOEC (activated sludge): >= 100 mg/l  
Exposure time: 3 h

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

Method: OECD Test Guideline 209

### Propylene glycol:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l  
Exposure time: 7 d
- Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 200 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- NOEC (Raphidocelis subcapitata (freshwater green alga)): 12.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC (activated sludge): 0.16 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### Glycerine:

- Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

---

II

### Tetraniliprole:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### Propylene glycol:

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 98.3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 0 %  
Exposure time: 29 d  
Method: OECD Test Guideline 301B

### Bioaccumulative potential

#### Components:

#### Glycerine:

Partition coefficient: n-octanol/water : log Pow: -1.75

#### Tetraniliprole:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 7.3  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 2.6  
Method: OECD Test Guideline 117

#### Propylene glycol:

Partition coefficient: n-octanol/water : log Pow: -1.07  
Method: Regulation (EC) No. 440/2008, Annex, A.8

### 2-Propanol, reaction products with naphthalene, sulfonated, sodium salts:

Partition coefficient: n-octanol/water : log Pow: -0.27

### Mobility in soil

No data available

### Other adverse effects

No data available



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.  
Do not dispose of waste into sewer.
- Contaminated packaging : Follow advice on product label and/or leaflet.  
Empty containers retain residue and can be dangerous.  
Do not re-use empty containers.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tetraniliprole, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1))
- Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

##### IATA-DGR

- UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Tetraniliprole, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
- Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

##### IMDG-Code

- UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Tetraniliprole, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))
- Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

---

Marine pollutant : yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Tetraniliprole, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))  
Class : 9  
Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : yes(Tetraniliprole, Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1))  
Remarks : Above applies only to containers over 119 gallons or 450 liters.  
Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

---

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

**SARA 311/312 Hazards** : No SARA Hazards

**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.

### US State Regulations

#### Pennsylvania Right To Know

Water	7732-18-5
Glycerine	56-81-5
Tetraniliprole	1229654-66-3

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version 2.0      Revision Date: 01/23/2024      SDS Number: 11249948-00003      Date of last issue: 09/13/2023  
Date of first issue: 07/26/2023

Propylene glycol

57-55-6

### California Prop. 65

WARNING: This product can expose you to chemicals including N,N-dimethylacetamide, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Permissible Exposure Limits for Chemical Contaminants

Glycerine

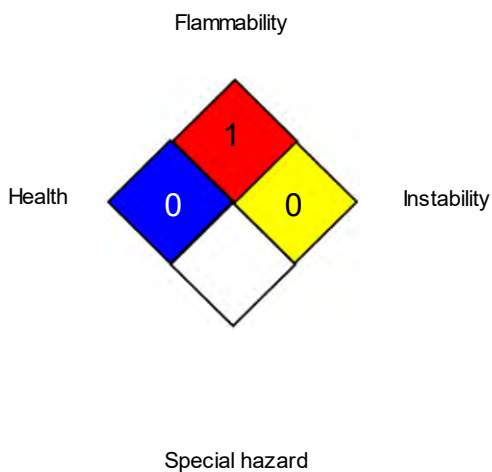
56-81-5

Product Type : Insecticides, acaricides and products to control other arthropods  
Active substance : 43 g/l  
Tetraniliprole

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

AIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Tetrino

Version	Revision Date:	SDS Number:	Date of last issue: 09/13/2023
2.0	01/23/2024	11249948-00003	Date of first issue: 07/26/2023

---

- International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 01/23/2024

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8