

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/21/2024 Version: 1.0

### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture
Product name : Trivictin

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer

#### 1.3. Supplier

INNVICTIS® BIOSCIENCE PLANT HEALTH TECHNOLOGIES P.O. Box 9296 Boise ID 83707, - USA T 855-466-8428

### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

#### **SECTION 2: Hazard(s) identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Corrosion/irritation, Category 1B Eye Damage/irritation, Category 1 Carcinogenicity, Category 2 Reproductive toxicity, Category 1 H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H351 Suspected of causing cancer.

H360 May damage fertility of the unborn child.

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)





Signal word (GHS US) · Danger

Hazard statements (GHS US) . H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage. H351 - Suspected of causing cancer.

H360 - May damage fertility or the unborn child.

Precautionary Statements (GHS US)

P260 - Do not breathe fume/gas/mist/vapors/spray.

P264 - Wash hands, face and other affected areas thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P363 - Wash contaminated clothing before reuse.

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P310 - Immediately call a poison center or doctor/physician.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P405 - Store locked up.

P501 Dispose of contents/container to Local, State and Federal Regulation.

#### 2.3. Other hazards which do not result in classification

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

3.2. Mixtures

Chemical name	CAS No	Weight-%
Alkyl substituted sulfinyl	Proprietary	Proprietary
N-(n-butyl)-thiophosphoric triamide	94317-64-3	1-5
Alkanolamine	Proprietary	Proprietary
Maleated polymer	Proprietary	Proprietary

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret. \*\*

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general ; Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a poison center or doctor/physician.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse. Immediately call a poison center or

doctor/physician.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or

doctor/physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and

symptoms

:Based on available data, the classification criteria are not met.

Symptoms/effects :May damage fertility or the unborn child.

Symptoms/effects after skin contact :Causes severe skin burns.
Symptoms/effects after eye contact :Causes severe eye damage.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable Extinguishing Media : Not determined

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of : Not determined

fire

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

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#### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. Personal Precautions

Use personal protective equipment as required.

#### 6.2. Environmental precautions

See Section 12 for additional Ecological Information.

#### 6.3. Methods and material for containment and cleaning up

Methods for Containment : Prevent further leakage or spillage if safe to do so. Methods for cleaning up : Keep in suitable, closed containers for disposal.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions/Advice for safe handling

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up..

Incompatible Materials : None Known on information supplied

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m <sup>3</sup> (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m <sup>3</sup> (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m <sup>3</sup>	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m <sup>3</sup> STEL: 6 ppm STEL: 15 mg/m <sup>3</sup>

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Apply technical measures to comply with the occupational exposure limits.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

### Eye protection:

Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection regulations.

#### Skin and body protection:

Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Refer to 29 CFR 1910.134 for respiratory protection requirements.

### Personal protective equipment symbol(s):



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#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state Liquid

Appearance Color characteristic liquid

Colour Characteristic

Odour Sulfurous, ammonia-like

Odour threshold Not determined

рΗ 10-11

Melting point Not determined

Freezing point Not determined

Boiling point Not determined

Not determined Flash point

Relative evaporation rate (butylacetate=1) Not determined

Flammability (solid, gas) Not determined Liquid Density 1.16 g/mL Not determined Vapour pressure Relative vapour density at 20 °C

Relative density Not determined

Not determined

Not determined

Not determined

Not determined

Solubility

Partition coefficient n-octanol/water (Log Pow) Not determined

Decomposition temperature Not determined

Viscosity, kinematic Not determined

Not determined Viscosity, dynamic

Not determined Explosive limits

Oxidising properties Not determined

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Explosive properties

The product is non-reactive under normal conditions

#### **Chemical stability** 10.2.

Auto-ignition temperature

Stable under recoomended storage conditions.

#### Possibility of hazardous reactions

None known under normal conditions processing.

#### 10.4. **Conditions to avoid**

Keep out of reach of children.

#### Incompatible materials

None known based on information available.

### Hazardous decomposition products

None known based on information available.

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### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects/routes of entry

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Alkyl substituted sulfinyl	Alkyl substituted sulfinyl		
LD50 oral rat	= 14500 mg/kg = 28300 mg/kg		
LD50 dermal rat	= 40 g/kg		
LC50 Inhalation	>5.33 mg/L 4h		

Dicyandiamide (461-58-5)		
LD50 oral rat	> 2000 mg/kg	

N-(n-butyl)-thiophosphonic triamide (94317-64-3)	
LD50 oral rat	> 2823 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Alkanolamine	
LD50 oral rat	=1720 mg/kg
LD50 dermal rabbit	=1mL/kg=1000mg/kg

Skin corrosion/irritation:Causes severe skin burns.Serious eye damage/irritation:Causes serious eye damage.

Respiratory or skin sensitization : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity . May damage fertility or the unborn child.

STOT-single exposure
STOT-repeated exposure
STOT-repeated exposure
Aspiration hazard
Viscosity, kinematic
Not classified.
Not classified.
Not classified.
Not classified.
No data available.

Potential adverse human health effects and symptoms/effects : Based on available data, the classification criteria

are not met.

Symptoms/effects after inhalation . Not classified.

Symptoms/effects after skin contact : Causes severe skin burns.

Symptoms/effects after eye contact : Causes severe eye damage.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Chemical Name	Algae/aquatic plants	Fish	Crustacea
Alkyl substituted sulfinyl	12350 - 25500: 96 h Skeletonema costatum mg/L EC50	4000: 96 h Pimephales promelas mg/L LC50 33 - 37: 96 h Oncorhynchus mykiss g/L LC50 static 41.7: 96 h Cyprinus carpio g/L LC50 40: 96 h Lepomis macrochirus g/L LC50 static	7000: 24 h Daphnia species mg/L EC50
N-(n-butyl)- thiophosphoric triamide 94317-64-3		1140: 96 h Lepomis macrochirus mg/L LC50 static	
Alkanolamine	15: 72 h Desmodesmus subspicatus mg/L EC50	300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 227: 96 h Pimephales promelas mg/L LC50 flow-through 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static	65: 48 h Daphnia magna mg/L EC50

#### 12.2. Persistence and degradability

Not determined

#### 12.3. Bioaccumulative potential

There is no data for this product

#### 12.4. Mobility in soil

Chemical Name Partition coeff	
Alkyl substituted sulfinyl	-2.03
Alkanolamine	-1.91

#### 12.5. Other adverse effects

Not determined.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid unintentional release to the environment.

### **SECTION 14: Transport information**

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1760

Proper Shipping Name Corrosive Liquid, n.o.s. (N-(n-butyl)thiophosphoric triamide, contains alkanolamine)

Hazard class 8
Packing Group II

### **ON 15: Regulatory information**

## 15.1. US Federal regulations

#### **US Federal Regulations**

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### 15.2. US State regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania	
Trade Secret	X	-	-	
Trade Secret	X	X	X	

#### 15.3. International regulations

Chemical Name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS
Trade Secret	x	Active	x	х
Dicyandiamide	х	Active	x	х
N-(n-butyl)-thiophosphoric triamide	х	Active	x	х
Trade Secret	х	Active	x	х
Trade Secret	х	Active	x	

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

### **SECTION 16: Other information**

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H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.

### SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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