## Safety Data Sheet



## **SECTION 1: Product and company identification**

Product name : Tower-Cide
Use of the substance/mixture : Algicide
Product code : 0630
Company : Total Solutions

P.O. Box 240014

Milwaukee, WI 53224 - USA

T 800-743-6417

athea.com

Contact:Technical Department: Chemtrec: 1-800-424-9300

#### **SECTION 2: Hazards identification**

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

**GHS-US** classification

**Emergency number** 

Eye Irrit. 2B H320

#### 2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)

Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes eye irritation

Precautionary statements (GHS US) : Wash thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable.

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification	
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene	(CAS-No.) 31512-74-0	7.0-13.0	Acute Tox. 4 (Oral), H302	
dichloride]			Acute Tox. 4 (Inhalation:dust,mist), H332	
			Eye Irrit. 2B, H320	

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove the victim into fresh air. First-aid measures after skin contact : Rinse skin with water/shower.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue

rinsing.

First-aid measures after ingestion : Rinse mouth with water. Do NOT induce vomiting.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation.

Symptoms/effects after eye contact : Causes eye irritation. Symptoms/effects after ingestion : Gastrointestinal complaints.

7/13/2022 Revision date: 07/13/2022 Version: 2.0 Z\_US GHS SDS 21 Page 1 of 5

# Safety Data Sheet



#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Adapt extinguishing media to the environment.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed

containers. Take account of environmentally hazardous firefighting water.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6: Accidental release measures**

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

General measures : Isolate from fire, if possible, without unnecessary risk.

#### 6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

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

For containment : Contain released product, collect/pump into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and

understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this

product. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.
Storage conditions : Keep container closed when not in use.

Incompatible products : Oxidizing agent.

Storage area : Meet the legal requirements. Store in a cool area. Store in a well-ventilated place.

Special rules on packaging : meet the legal requirements.

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

### 8.1. Control parameters

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedichloride] (31512-74-0)

Not applicable

7/13/2022 Revision date: 07/13/2022 Version: 2.0 Z\_US GHS SDS 21 Page 2 of 5

# Safety Data Sheet



#### 8.2. Exposure controls

Personal protective equipment

Gloves. Protective clothing. Safety glasses. Use appropriate personal protective equipment when risk assessment indicates this is necessary.







## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, light yellow liquid

Odour : Mild odor

Odour threshold : No data available

pH : 5-7

Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Flash point : > 200 °F Closed Cup

Relative evaporation rate (butylacetate=1)

Flammability

Explosive limits

Explosive properties

Oxidising properties

Vapour pressure

Relative density

No data available

Relative density : No data available Relative vapour density at 20 °C : No data available Density : 1.02 g/ml

Solubility : Soluble in water.

Partition coefficient n-octanol/water (Log Pow) : No data available

Partition coefficient n-octanol/water (Log Kow) : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available

VOC content : 0 %

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

### 10.1. Reactivity

Upon combustion: CO and CO2 are formed.

#### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

# 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylenedicl	hloride] (31512-74-0)
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LD50 oral rat 1951 mg/kg Male

7/13/2022 Revision date: 07/13/2022 Version: 2.0 Z\_US GHS SDS 21 Page 3 of 5

# Safety Data Sheet



LD50 dermal rabbit > 2000 mg/kg

Skin corrosion/irritation : Not classified

pH: 5 - 7

Serious eye damage/irritation : Causes eye irritation.

pH: 5 – 7

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Symptoms/effects after inhalation : None under normal use.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation.

Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects after ingestion : Gastrointestinal complaints.
Likely routes of exposure : Skin and eyes contact

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations.

## **SECTION 14: Transport information**

## **Department of Transportation (DOT)**

In accordance with DOT: Not regulated for transport

## **Additional information**

Other information : No supplementary information available.

### **ADR**

No additional information available

## Transport by sea

No additional information available

## Air transport

No additional information available

#### **SECTION 15: Regulatory information**

EPA Registration Number: 10088-40

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

**Caution:** Harmful if swallowed. Harmful if absorbed through skin. Wear chemical-resistant apron. Causes moderate eye irritation. Wear chemical-resistant eyewera. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

7/13/2022 Revision date: 07/13/2022 Version: 2.0 Z US GHS SDS 21 Page 4 of 5

# Safety Data Sheet



This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.



This product can expose you to 1,4-Dioxane, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

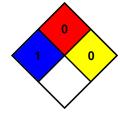
Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible

materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

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. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

7/13/2022 Revision date: 07/13/2022 Version: 2.0 Z US GHS SDS 21 Page 5 of 5