# **Safety Data Sheet**



Issue Date: 27-Sep-2013 Revision Date: 30-Sep-2024 Version 3

## 1. IDENTIFICATION

**Product Identifier** 

Product Name Volunteer Herbicide

Other means of identification

Registration Number(s) EPA Reg. No. 66222-60-55467

Recommended use of the chemical and restrictions on use
Recommended Use EPA registered pesticide.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Tenkoz, Inc. 1725 Windward Concourse, Suite 410 Alpharetta, GA 30005

**Emergency Telephone Number** 

**Emergency Telephone (24 hr)**For fire, spill and/or leak contact CHEMTREC: 1-800-424-9300
For medical emergencies and health/safety inquiries, contact

CUENTED A 200 404 2000

CHEMTREC: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

This chemical is a product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-EPA registered chemicals. Please see Section 15 for additional EPA information.

Appearance Amber liquid Physical State Liquid Odor Mild Aromatic

# Classification

Acute toxicity – Inhalation (Dusts/Mists)	Category 4
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

## **Hazards Not Otherwise Classified (HNOC)**

Causes mild skin irritation

Signal Word Danger

# **Hazard Statements**

Harmful if inhaled
May be fatal if swallowed and enters airways
Combustible liquid



#### **Precautionary Statements - Prevention**

Avoid breathing dust/mist
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

## <u>Precautionary Statements - Response</u>

IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a poison center/doctor if you feel unwell

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do not induce vomiting

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep cool

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### **Other Hazards**

Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS		
Chamical Name	CAS No	Moight 9/
Chemical Name	CAS NO	Weight-%
Clethodim	99129-21-2	26.4
Proprietary Solvent	Proprietary	<24

<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.\*\*

# 4. FIRST-AID MEASURES

#### **First Aid Measures**

General Advice When possible, have the product container or label with you when calling a poison control

center or doctor or going for treatment.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control

center or doctor for treatment advice.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. Wash contaminated clothing before reuse. Get medical attention if

necessary.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give

artificial respiration. Seek medical advice.

Ingestion

Immediately call a poison center or doctor/physician. Never give anything by mouth to an unconscious person. Obtain medical attention. Do not induce vomiting unless directed by medical personnel.

# Most important symptoms and effects

**Symptoms** 

May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Liquid ingestion may result in vomiting; aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage. May cause mild skin and eye irritation. May cause nose and throat irritation.

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

Notes to Physician Treat symptomatically. If the product is ingested, probable mucosal damage may

contraindicate the use of gastric lavage.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Dry chemical. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

## **Specific Hazards Arising from the Chemical**

Combustible liquid.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Oxides of sulfur. Chlorine compounds. Toxic gases may be formed by fire.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

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

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up For small spills, absorb with sand, clay, or other inert absorbent. Place in appropriate

containers for disposal. For large spills: recover free product. Dike for later disposal. Absorb with inert material, and then place in suitable container for chemical waste. Flush spill area

with water, collect rinse water in containers for proper disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use

only in well-ventilated areas.

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

**Storage Conditions**Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of

the reach of children. Store away from incompatible materials. Protect from excessive heat. Store locked up. Keep/store only in original container. Do not use food or drink containers

for mixing or storage. Store above 18°F (-8°C).

Incompatible Materials Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Exposure Guidelines**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

#### Appropriate engineering controls

Engineering Controls Please refer to the product label. Use only with adequate ventilation. Use process

enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure

to airborne contaminants below any recommended or statutory limits.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Use splash goggles or face shield when contact may occur.

**Skin and Body Protection**Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Viton or other impervious gloves are required. Long sleeve shirt, trousers, and

safety shoes.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. Wear an appropriate

NIOSH/MSHA approved respirator if ventilation is inadequate.

**General Hygiene Considerations** Wash hands before eating, drinking, smoking and using the toilet. Remove contaminated

clothing promptly and wash thoroughly before reused. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE

separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical State Liquid

AppearanceAmber liquidOdorMild AromaticColorAmberOdor ThresholdNot determined

Pensky-Martens Closed Cup (PMCC)

PropertyValuesRemarks • MethodpH3.5-6.0(10% aqueous solution)

Melting Point/Freezing Point

Boiling Point/Boiling Range

Flash Point

Not applicable

Not determined
64.8 °C / 149 °F

Evaporation Rate Not determined

Flammability (Solid, Gas)

Liquid-not applicable

**Upper Flammability Limits** Not available Lower Flammability Limit Not available **Vapor Pressure** Not determined **Vapor Density** Not determined **Specific Gravity** Not determined Water Solubility Emulsifiable Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity Explosive Properties** Not determined Oxidizing Properties Not an oxidizer

**Bulk Density** 0.967 gm/L (8.05 lb/gal) @ 20°C

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Not known to occur.

#### **Conditions to Avoid**

Elevated temperatures.

# **Incompatible Materials**

Strong oxidizing agents.

## **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Oxides of sulfur. Chlorine compounds. May emit toxic fumes under fire conditions.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Causes mild skin irritation.

**Inhalation** Harmful if inhaled.

**Ingestion** May be fatal if swallowed and enters airways.

#### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Solvent	> 5000 mg/kg (Rat)	> 2000 mg/kg(Rabbit)	> 590 mg/m³(Rat)4 h

## Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Not classifiable as a human carcinogen.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**Product Information (Numerical measures of toxicity)** 

Acute Oral LD50 (Rat): 2,000-5,000 mg/kg Acute Dermal LD50 (Rabbit): >5,000 mg/kg Acute Inhalation LC50 (Rat): >2.09 mg/L (4-hr)

Eye Irritation: Moderately irritating.

Dermal Irritation: Moderately irritating.

Dermal Sensitization: Not a contact sensitizer.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment washwaters or rinsate

The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist:

Solano Grass: Solano County, California: The vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west

Wild Rice: Hays County, Texas.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary Solvent	2.5: 72 h Skeletonema	19: 96 h Pimephales		0.95: 48 h Daphnia magna
	costatum mg/L EC50	promelas mg/L LC50 static		mg/L EC50
		2.34: 96 h Oncorhynchus		
		mykiss mg/L LC50 1740: 96		
		h Lepomis macrochirus mg/L		
		LC50 static 45: 96 h		
		Pimephales promelas mg/L		
		LC50 flow-through 41: 96 h		
		Pimephales promelas mg/L		
		LC50		

#### Persistence/Degradability

Not determined.

#### Bioaccumulation

Not determined.

**Mobility** 

Chemical Name	Partition Coefficient
Proprietary Solvent	6.1

#### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL

RECOMMENDATIONS. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Hazardous Waste representative at the nearest EPA regional office. Never place any unused product down an indoor or outdoor drain. Do not

contaminate water, food or feed by disposal.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# 14. TRANSPORT INFORMATION

DOT

Pack size less than 119 Gallons:

Not Regulated

Pack size over 119 Gallons:

NA 1993, Combustible liquid, N.O.S. (Naphthalene), PG III

Pack size over 563 Gallons:

NA 1993, Combustible liquid, N.O.S. (Naphthalene), PG III, RQ

IATA Not regulated

IMDG Not Regulated

# 15. REGULATORY INFORMATION

# International Inventories

TSCA All ingredients are listed or exempt from listing on Chemical Substance Inventory

Legend:

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

#### US Federal Regulations

# SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardYesSudden Release of Pressure HazardNoReactive HazardNo

**SARA 313** 

Not determined

#### **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

# EPA Pesticide Registration Number 66222-60-55467

#### **EPA Statement**

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:

#### **EPA Pesticide Label**

Signal Word: Caution

Harmful if swallowed. Causes moderate eye damage. Avoid contact with eyes, skin or clothing

Difference between SDS and EPA pesticide label

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Signal Word	Caution	Danger	
Acute toxicity - Oral	Harmful if swallowed	N/A	
Acute toxicity – Inhalation	N/A	Harmful if inhaled	
Skin corrosion/irritation	N/A	Causes mild skin irritation	
Serious eye damage/eye irritation	Causes moderate eye irritation	N/A	
Aspiration Hazard	N/A	May be fatal if swallowed and enters airways	

# **16. OTHER INFORMATION**

NFPA Health Hazards Flammability Instability Special Hazards

2 0 None

<u>HMIS</u> Health Hazards Flammability Physical Hazards Personal Protection

2 0 See section 8

 Issue Date:
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 Revision Date:
 30-Sep-2024

Revision Note: New distributor product

## **Disclaimer**

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**