

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 09/21/2019 Version: 1.0

## **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Product name : Vinegar Weed & Grass Killer

### 1.2. Recommended use and restrictions on use

Recommended use : Horticulture vinegar for weed control

### 1.3. Supplier

Energen of Carolina, LLC 834 Dupont Road Charleston, SC 29407

Phone: (843) 556-6506

## 1.4. Emergency telephone number

Emergency number : 24 Hour Contact – ChemTel, Inc. 1-813-248-0573

## SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315 Causes skin irritation
Serious eye damage/eye irritation, Category 1 H318 Causes serious eye damage

Full text of H statements : see section 16

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

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary statements (GHS-US) : P264 - Wash hands and other exposed areas thoroughly after handling

P280 - Wear personal protective equipment P302+P352 - If on skin: Wash with plenty of water

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse

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

No additional information available

## 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

## 3.1. Substance

Not applicable - product is a mixture

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Acetic acid	(CAS No) 64-19-7	20	Flam. Liq. 3, H226 Skin Corr. 1A, H314

Full text of classification categories and H statements: see section 16

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## **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 you feel unwell, seek medical

advice (show the product label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

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. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage

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

No additional information available

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

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

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

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

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

chemical fire. Contain all water used for fire-fighting to the greatest extent possible.

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

## 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

## 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking, or

smoking, and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures : Wash hands and other exposed areas thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container closed when

not in use.

Incompatible products : Strong bases. strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Acetic acid (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	15 ppm
OSHA	OSHA PEL (TWA) (mg/m³)	25 mg/m³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
IDLH	US IDLH (ppm)	50 ppm
NIOSH	NIOSH REL (TWA) (mg/m³)	25 mg/m³
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (mg/m³)	37 mg/m³
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm

#### 8.2. Appropriate engineering controls

No additional information available

## 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves

Eye protection:

Chemical goggles or safety glasses.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear approved mask.

Other information:

When using, do not eat, drink or smoke.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colorless

Odour : Strong vinegar odor Odour threshold : No data available

pH : 2.1 - 2.8

Melting point : No data available Freezing point : No data available Boiling point : No data available Flash point : No data available Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Non flammable : No data available Vapor pressure Relative vapor density at 20 °C : No data available

Relative density : 1.04

Solubility : Soluble in water
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available

Viscosity, kinematic : 1.6 cSt

Viscosity, dynamic : No data available Explosive limits : No data available Explosive properties : No data available Oxidising properties : No data available

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#### 9.2. Other information

No additional information available

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

### 10.1. Reactivity

Thermal decomposition generates corrosive vapors.

#### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

Reacts violently with some bases: release of heat

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

## 10.5. Incompatible materials

Strong acids. Strong bases. Metals.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Likely routes of exposure : Skin and eyes contact.

Acute toxicity : Not classified

Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg
LD50 dermal rabbit	1060 µl/kg
LC50 inhalation rat (mg/l)	11.4 mg/l/4h
ATE US (oral)	3310.000 mg/kg bodyweight
ATE US (vapors)	11.400 mg/l/4h
ATE US (dust,mist)	11.400 mg/l/4h

Skin corrosion/irritation : Causes skin irritation

Serious eye damage/irritation : Causes serious eye damage

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: No additional information available

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Acetic acid (64-19-7)	
LC50 fish 1	79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

## 12.2. Persistence and degradability

Vinegar Weed & Grass Killer	
Persistence and degradability	Not established.

## 12.3. Bioaccumulative potential

Acetic acid (64-19-7)	
Log Pow	-0.31 (at 20 °C)

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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations.

Ecology - waste materials : Avoid release to the environment.

## **SECTION 14: Transport information**

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

In accordance with DOT

Not regulated for transport

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Vinegar Weed & Grass Killer	
SARA Section 311/312 Hazard Classes	Skin corrosion or irritation Serious eye damage or irritation

## Acetic acid (64-19-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

### CANADA

### Acetic acid (64-19-7)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

# **EU-Regulations**

## Acetic acid (64-19-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

#### **National regulations**

## Acetic acid (64-19-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the Canadian Ingredient Disclosure List

## 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

Other information : None.

## Full text of H-phrases::

rtext of ri-piliases	
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage

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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