



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : Vinegar(300 grain)  
Other means of identification : 300 grain vinegar

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Product/Food Ingredient

#### 1.3. Details of the supplier of the safety data sheet

Mizkan Americas, Inc.  
1661 Feehanville Dr., Suite 300  
Mount Prospect, IL 60056  
T (847) 590-0059  
[www.mizkan.com](http://www.mizkan.com)

Contact Name: David Bierdeman  
Director of Quality Assurance  
847-590-0059 ext. 1306

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300  
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or Night.

### SECTION 2: Hazards identification

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

##### Classification (GHS-US)

Skin Corr. 1A H314  
Serious Eye Damage 1 H318  
Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger  
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage  
Precautionary statements (GHS-US) : P260 - Do not breathe mist, spray, vapors  
P264 - Wash exposed skin thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection  
P301 + P330 + P331 - If swallowed: rinse mouth. Do NOT induce vomiting. Please drink plenty of water.  
P303 + P361 + P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER  
P321 - Specific treatment (see Section 4 on this label)  
P363 - Wash contaminated clothing before reuse  
P405 - Store locked up  
P501 - Dispose of contents/container to comply with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

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

Not applicable

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name        | Product identifier | %  | Classification (GHS-US)   |
|-------------|--------------------|----|---|
| Acetic Acid | (CAS No) 64-19-7   | 30 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1A, H314<br>Aquatic Acute 3, H402 |

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- First-aid measures after eye contact : Immediately flush with large amounts of water, holding eyelids open, for at least 20 minutes. Repeat if necessary. Remove contact lenses, if present and easy to do. Seek medical assistance if irritation persists.
- First-aid measures after ingestion : Drink plenty of water. Do not induce vomiting. Do not give emetics or baking soda. Get medical advice/attention.

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

- Symptoms/injuries after inhalation : Irritating to the nose, throat, and respiratory tract.
- Symptoms/injuries after skin contact : Contact with material may irritate or burn skin.
- Symptoms/injuries after eye contact : Extremely irritating to the eyes. If not removed promptly, will injure eye tissue, which may result in permanent damage, including blindness.
- Symptoms/injuries after ingestion : Can irritate or burn mouth, throat, and stomach if swallowed.

#### 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 : Any. Use media appropriate for surrounding fire.

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

- Fire hazard : Material is not combustible.
- Reactivity : Stable under normal conditions of use.

#### 5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection to protect from hazardous combustion products/oxygen deficiencies.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes. Evacuate area.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required. Wear personal protective equipment to prevent skin and eye contact.
- Emergency procedures : Keep unauthorized personnel away.

#### 6.2. Environmental precautions

Avoid release to the environment : Dike for treatment or disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

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

- For containment : Contain spilled material. Water may be used to dilute.

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- Methods for cleaning up : LARGE SPILLS PROCEDURE:  
Contain spilled material. Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Avoid runoff into storm sewers and ditches that lead to waterways. Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.
- SMALL SPILLS PROCEDURE:  
Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements. Water may be used to dilute.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes.
- Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

- Storage conditions : Keep container tightly closed in a dry and well-ventilated place.
- Incompatible products : Store away from strong oxidizing materials. Strong bases.

#### 7.3. Specific end use(s)

Product/Food Ingredient

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Vinegar |                 |
|---------|-----------------|
| ACGIH   | Not Established |
| OSHA    | Not Established |

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

|       |                                       |                      |
|-------|---------------------------------------|----------------------|
| ACGIH | ACGIH (TWA) (mg/m <sup>3</sup> )      | 25 mg/m <sup>3</sup> |
| ACGIH | ACGIH (TWA) (ppm)                     | 10 ppm               |
| ACGIH | ACGIH (STEL) (mg/m <sup>3</sup> )     | 37 mg/m <sup>3</sup> |
| ACGIH | ACGIH (STEL) (ppm)                    | 15 ppm               |
| OSHA  | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 25 mg/m <sup>3</sup> |
| OSHA  | OSHA PEL (TWA) (ppm)                  | 10 ppm               |
| NIOSH | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 25 mg/m <sup>3</sup> |
| NIOSH | NIOSH REL (TWA) (ppm)                 | 10 ppm               |
| NIOSH | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 37 mg/m <sup>3</sup> |
| NIOSH | NIOSH REL (STEL) (ppm)                | 15 ppm               |

#### 8.2. Exposure controls

- Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. General ventilation used in combination with local exhaust as necessary to control airborne contaminants to below acceptable exposure guidelines.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : In case of repeated or prolonged contact wear gloves. Recommended material: Butyl Rubber or equivalent material
- Eye protection : Wear chemical goggles plus face shield.
- Skin and body protection : When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.
- Respiratory protection : If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid

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|   |  |
|---|--|
| Color                                       | : Appropriate color for type of vinegar          |
| Odor  | : Appropriate odor for type of vinegar           |
| Odor threshold                              | : 0.037-0.15 ppm acetic acid                     |
| pH  | : 2 at 30% acetic acid (calculated)              |
| Relative evaporation rate (butyl acetate=1) | : No data available                              |
| Melting point                               | : No data available                              |
| Freezing point                              | : -9 °C (15°F) at 30% acetic acid (calculated)   |
| Boiling point                               | : 103 °C (217°F) at 30% acetic acid (calculated) |
| Flash point                                 | : Not Applicable                                 |
| Auto-ignition temperature                   | : Not Applicable                                 |
| Decomposition temperature                   | : No data available                              |
| Flammability (solid, gas)                   | : Not Applicable                                 |
| Vapor pressure                              | : 15.6 mm Hg at 30% acetic acid (calculated)     |
| Relative vapor density at 20 °C             | : 1.03 - 1.04 at 30% acetic acid (Water = 1)     |
| Relative density                            | : No data available                              |
| Solubility                                  | : Soluble in water.                              |
| Log Pow                                     | : No data available                              |
| Log Kow                                     | : No data available                              |
| Viscosity, kinematic                        | : No data available                              |
| Viscosity, dynamic                          | : No data available                              |
| Explosive properties                        | : Not Applicable                                 |
| Oxidizing properties                        | : Incompatible with strong oxidizers.            |
| Explosive limits                            | : Not Applicable                                 |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Refer to Section 10 on Incompatible Materials.

#### 10.5. Incompatible materials

Strong oxidizing agents. Strong bases.

#### 10.6. Hazardous decomposition products

Combustion may produce carbon monoxide and other harmful substances.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| Acetic Acid (64-19-7) |                            |
|-----------------------|----------------------------|
| LD50 oral rat         | 3310 mg/kg                 |
| LD50 dermal rabbit    | 1130 mg/kg                 |
| ATE US (oral)         | 3310.000 mg/kg body weight |
| ATE US (dermal)       | 1130.000 mg/kg body weight |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Causes severe skin burns and eye damage.<br>pH: 2 at 30% acetic acid (calculated) |
| Serious eye damage/irritation     | : Causes serious eye damage<br>pH: 2 at 30% acetic acid (calculated)                |
| Respiratory or skin sensitization | : Not classified  |

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|  |   |
|--|---|
| 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 exposure) | : Not classified  |
| Aspiration hazard                                  | : Not classified  |
| Symptoms/injuries after inhalation                 | : Irritating to the nose, throat, and respiratory tract.  |
| Symptoms/injuries after skin contact               | : Contact with material may irritate or burn skin.  |
| Symptoms/injuries after eye contact                | : Extremely irritating to the eyes. If not removed promptly, will injure eye tissue, which may result in permanent damage, including blindness. |
| Symptoms/injuries after ingestion                  | : Can irritate or burn mouth, throat, and stomach if swallowed.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

| Acetic Acid (64-19-7) |           |
|-----------------------|-----------|
| LC50 fish             | 88 mg/l   |
| EC50 Daphnia          | 90.1 mg/l |

### 12.2. Persistence and degradability

| Vinegar(300 grain), concentrated (8028-52-2) |   |
|--|---|
| Persistence and degradability                | Biodegrades readily under aerobic and anaerobic conditions. |

### 12.3. Bioaccumulative potential

| Vinegar(300 grain), concentrated (8028-52-2) |  |
|--|--|
| Bioaccumulative potential                    | This product is not expected to bioaccumulate. |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Treat or dispose of waste material as a weak acid in accordance with all local, state/provincial, and national requirements.

## SECTION 14: Transport information

### 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

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Not listed on the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) : 5000 lb

#### 15.2. International regulations

##### CANADA

##### Vinegar(300 grain), concentrated (8028-52-2)

WHMIS Classification Class E - Corrosive Material

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

WHMIS Classification Class B Division 2 - Flammable Liquid  
Class E - Corrosive Material

#### EU-Regulations

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

#### 15.3. US State regulations

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

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Washington - Permissible Exposure Limits - TWAs

### SECTION 16: Other information

Revision date : 05/19/2015

Data sources : ChemADVISOR, Inc.[<https://www.chemadvisor.com>]. GESTIS DNEL Database [[http://dnel-en.itrust.de/nxt/gateway.dll/dnel\\_en/000000.xml?f=templates\\$fn=default.htm\\$vid=dneleng:ddbeng\\$3.0](http://dnel-en.itrust.de/nxt/gateway.dll/dnel_en/000000.xml?f=templates$fn=default.htm$vid=dneleng:ddbeng$3.0)].

Full text of H-phrases:

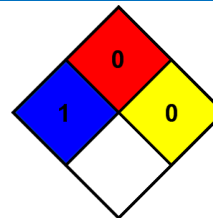
|                       |  |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4                             |
| Aquatic Acute 3       | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Flam. Liq. 3          | Flammable liquids Category 3                                   |
| Skin Corr. 1A         | Skin corrosion/irritation Category 1A                          |
| H226                  | Flammable liquid and vapor                                     |
| H312                  | Harmful in contact with skin                                   |
| H314                  | Causes severe skin burns and eye damage                        |
| H402                  | Harmful to aquatic life  |

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NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.  
NFPA fire hazard : 0 - Materials that will not burn.  
NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 0 Minimal Hazard  
Physical : 0 Minimal Hazard

### SDS US (GHS HazCom 2012)

*Mizkan Americas, Inc. does not represent or warrant that any hazard listed herein is the only hazard which exists. Effects can be aggravated by the presence of other materials or this material may aggravate or add to the effects of other materials. This information represents a compilation of data drawn directly from various sources. As of the date of preparation of this document, the information is believed to be accurate to the best of our knowledge.*

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