

# SAFETY DATA SHEET

## Vinegar

Revision Date: 19 December 2020

### SECTION 1. IDENTIFICATION

#### 1.1 Identifier

Product Brand name: Vinegar  
Product Description: Acetic Acid  
Product Code: 200737

#### 1.2 Recommended Use & Restriction on Use:

Cleaning Metal and Inorganic Surfaces.

Not for Food, Drug, Pesticide or Biocide use. Read all 16 sections stated herein thoroughly and completely.

#### 1.2 Details of the supplier of the safety data sheet

##### Tidol Corporation

146 Shorting Road, Scarborough ON M1S 3S6, Canada

Tel: 416-293-2244/ 1-800-881-8672 Fax: 416-293-5808

Email: info@tidolcorp.com

#### 1.3 Emergency Telephone Number

Vendor 1-800-881-8672 or 416-293-2244 24hrs

### SECTION 2. HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or Mixture

Skin Corrosion (Category 1B)

Serious Eye Damage (Category 1)

Metal Corrosion (Category 1)

Specific target Organ (Category 3)

#### 2.2 Label elements



**Signal Word** Warning

#### Hazard Statements

H314 - Causes severe skin burns and eye damage

#### Precautionary Statements

##### Prevention

P260 - Do not breathe mist, vapors, spray

P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, eye protection

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

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 or doctor/physician

If inhaled: Remove person to fresh air and keep comfortable for breathing P363 - Wash contaminated

clothing before reuse

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

Hazards not otherwise classified (HNOC)

Corrosive to the respiratory tract

**2.3. Supplemental label elements:** Mix only with water, do not mix with any other product or chemicals.

**Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**2.4 Other hazards**

**Potential Acute Health effects:**

Hazardous in case of contact with eyes, skin; if ingested and inhaled. Liquid, mist or powder may produce tissue damage especially mucous membrane of eyes, mouth, nostrils and respiratory tract. Will burn eyes and skin on contact. Respiratory tract characterized by coughing, choking and shortness of breath. Inflammation of eyes results in redness, watering and itching. Skin contact may result in scaling, redness or blistering.

**Potential Chronic Health effects**

Carcinogenic- Not available

Mutagenic- Not available

Teratogenic- Not available

Embryonic- Not available

Maybe toxic Kidneys, Liver, Mucous membranes, Respiratory tract, Skin and Teeth

**2.5 Unknown Acute Toxicity**

No information available

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substances**

No information available

**3.2 Mixtures**

COMPONENT	CAS #	CONCENTRATIONS W/W
Acetic Acid	64-19-7	20-25%

**SECTION 4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**General notes**

Precaution should always be taken to avoid skin/eye contact with any chemical substance. Precaution should always be taken to avoid contact or inhalation of fumes of any chemical substance.

**Inhalation**

Remove to fresh air, apply artificial respiration or administer oxygen if necessary. Seek prompt medical attention, if symptoms persist.

**Skin contact**

Immediately remove contaminated clothing and flush skin with potable water for at least fifteen minutes. Wash skin with mild soap and water. Launder clothes before reuse.

**Eye contact**

Flush continuously with potable water for 15 minutes. Forcibly hold eye lids apart to ensure irrigation of all eye tissue. If irritation persists, get medical attention.

**Ingestion**

Do not induce vomiting without medical advice. If ingestion of large amount occurs seek medical attention. Never give anything by mouth if the victim is unconscious or

losing consciousness or convulsing. Rinse mouth with water and drink small quantity of water.

**Self-protection of the first aider:** No information available

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

Product is a corrosive material; causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to delicate tissue and danger of perforation. Use of gastric lavage or emesis contraindicated due to the product being corrosive. Possible perforation of stomach or esophagus should be investigated.

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

No information Available.

### **SECTION 5. FIRE FIGHTING MEASURES**

#### **5.1 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 Special hazards arising from the substance or mixture**

Thermal decomposition generates : Corrosive vapors.

#### **5.3 Special precautions for firefighters**

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

Prevent fire-fighting water from entering environment.

#### **5.4 Special protective equipment for firefighters**

Fire fighters should wear full protective gear including self contained breathing apparatus with full face shield operated in positive pressure mode.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **6.2 Environmental precautions**

Do not flush into sanitary or storm sewer or water cause as this material is toxic to fish and wildlife.

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

Cover spill with suitable absorbent material, sand or vermiculite, mix well and carefully transfer to a well marked container. In case of powders sweep up without causing dust and close lid tightly and have it disposed. Vacuum using a vacuum cleaner equipped with a HEPA filter or wet sweeping may be used to avoid dust dispersal. Follow national, provincial, city and local laws and bylaws in disposing.

#### **6.4 Reference to other sections**

No information available.

### **SECTION 7. HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Use only under a chemical fume hood. Do not breathe vapors or spray mist. Keep away from clothing and other combustible materials.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Corrosives area. Keep in properly labeled containers. Do not store in metal containers.

#### **7.3 Incompatibilities/Specific end uses**

**Incompatibilities** Other Detergent Products, acids and bases

**Specific end uses** Industrial Use.

#### **Additional Information**

Special shipping instructions: Protect against physical damage. Use precaution when handling or shipping any

chemical substance. Present appropriate placards when applicable, be sure documentation is correct, and each container has the proper safety marks affixed.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Exposure Limits

Acetic Acid (64-19-7)		
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	25 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
IDLH	US IDLH (ppm)	50 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
Water (7732-18-5)		
Not applicable		

*Legend ACGIH - American Conference of Governmental Industrial Hygienists*

*OSHA - Occupational Safety and Health Administration*

*NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health*

### 8.2 Control Parameters

Not Available

### 8.3 Engineering Controls/Exposure Controls

#### Engineering controls

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Environmental exposure controls

Do not allow material to enter sanitary and or storm sewer, follow city bylaws.

### 8.4 Protective Measures

#### Eye/face protection

Chemical safety goggles

#### Hand protection

Wear impervious gloves (e.g. neoprene, rubber) when there is greater exposure risk.

#### Other Skin protection

wear impervious protective clothing when there is greater risk.

#### Other protection

area.

An eye wash station and safety shower should be near the work

#### Respiratory protection

A MSHA/NIOSH approved respirator is recommended when there is greater risk

#### General hygiene consideration

No information available.

#### Thermal hazards

No information available.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearances	Liquid
Initial Boiling Point	Not applicable
Boiling Range	105 °C / 221 °F
Bulk Densities	Not Applicable
Evaporation Rate	Not Applicable

Flammability	Non flammable
Upper Flammability limit	Non Flammable
Lower Flammability limit	Non flammable
Partition coefficient	Not available
Auto Ignition temperature	Non flammable
Decomposition Temperature	Not available
Color	Clear/Colorless
Densities	Not Available.
Explosive properties	Not Applicable
Extinguishing Media for Fires	Non-Flammable
Flash Points	Not Available.
Heats of Combustion	Not Available.
Henry's Law Constant	Not Available.
Melting point/freezing point	-35 °C / -31 °F
Odor Threshold Values	Not Available.
Odors	Pungent
Percent Volatility	Not Available.
pH Value	1.5 ± 0.50
Specific Gravity	1.025
Vapor Pressures	Not Available.
Viscosity	Not Applicable
Water Miscibility	Water Soluble
Water Solubility (Qualitative)	Infinite

## 9.2 Other information

### SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Thermal decomposition generates : Corrosive vapors.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No information available.
<b>10.4 Conditions to avoid</b>	Direct sunlight. Extremely high or low temperatures.
<b>10.5 Incompatible materials</b>	Strong oxidizers. metals. Strong bases.
<b>10.6 Hazardous decomposition products</b>	Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

### SECTION 11. TOXICOLOGICAL

#### 11.1 Information on likely routes of exposure

<b>Skin contact</b>	Dermal corrosion
<b>Eye contact</b>	Corrosive to eyes
<b>Inhalation</b>	Causes irritation to the respiratory tract. Symptoms include coughing, shortness of breath. Behaves as a moderately strong alkali; intense exposure may result in the destruction of mucous membranes. May cause asthmatic bronchitis, chemical pneumonitis, or pulmonary edema.
<b>Ingestion</b>	Can cause irritation to mouth, throat and stomach. Large dose may cause violent colic, diarrhea, depression and possible death

#### Symptoms related to the physical, chemical and toxicological characteristics

No information available.

#### 11.2 Information on toxicological effects

##### Acute Toxicity

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

Acetic Acid, 10% v/v (1+9)	
LD50 oral rat	10251 mg/kg

ATE US (oral)	10251.000 mg/kg body weight
<b>Acetic Acid (64-19-7)</b>	
LD50 oral rat	3310 mg/kg body weight (Rat; Other; Read-across)
ATE US (oral)	3310.000 mg/kg body weight
<b>Water (7732-18-5)</b>	
LD50 oral rat	≥ 90000 mg/kg
ATE US (oral)	90000.000 mg/kg body weight

<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory sensitization</b>	No information available.
<b>Skin sensitization</b>	No information available.
<b>Carcinogenicity</b>	No known reports of carcinogenicity. Not a listed carcinogen NTP, IARC, or OSHA.
<b>Germ cell mutagenicity</b>	No information available.
<b>Reproductive toxicity</b>	Not information available
<b>Specific target organ toxicity-single exposure</b>	No information available.
<b>Specific target organ toxicity-repeated exposure</b>	No information available.
<b>Aspiration hazards</b>	No information available.

## SECTION 12. ECOLOGICAL

### 12.1 Ecotoxicity

Do not empty into drains. Contains a substance which is: Harmful to aquatic organisms.

### 12.2 Persistence and degradability

Miscible with water Persistence is unlikely based on information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

### 12.7 Additional Information

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and

## SECTION 14. TRANSPORT

### Product as sold

#### Land Transport -TDG Ground/Rail

14.1 UN number	UN2790
14.2 UN proper shipping name	Acetic Acid
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	No information available.
14.6 Special precautions for user	Follow sections 2,3,and 4
14.7 Transport in bulk according to Annex II of Marpol112 and the IBC Code	No information available

## SECTION 15. REGULATORY INFORMATION

### 15.1. US Federal regulations

#### Acetic Acid, 10% v/v (1+9)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

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

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.

<b>Acetic Acid (64-19-7)</b>	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb

## 15.2. International regulations

### CANADA

<b>Acetic Acid, 10% v/v (1+9)</b>	
WHMIS Classification	Class E - Corrosive Material
<b>Acetic Acid (64-19-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class E - Corrosive Material
<b>Water (7732-18-5)</b>	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

**EU-Regulations** No additional information available

### National regulations

<b>Acetic Acid (64-19-7)</b>	
Listed on the Canadian IDL (Ingredient Disclosure List)	

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16. OTHER INFORMATION

**Specific Hazard:** N/A

**HMIS Ratings :**

<b>HEALTH</b>	<input type="checkbox"/>
<b>FLAMMABILITY</b>	<input type="checkbox"/>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>

The information on this Safety Data Sheet has been obtained from the Globally Harmonized System of Classification and Labeling of Chemicals, Guidance on the preparation of Safety Data Sheet, Suppliers, Manufacturers, and where applicable, from other reliable sources such as CCOHS, RTECS and worldwide web. However, TIDOL CORPORATION makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and shall not be held liable, regardless of fault, to anyone directly or indirectly for damages or injuries in the use of this product arising out of or in connection with the accuracy, completeness or adequacy of such information. It is the purchaser and the user of the product to evaluate the usefulness of the product and the information inscribed here.

Free samples are provided for testing for fitness of the product for use by the purchaser or another third party client and their compliance with applicable statues is a strict condition of sale. All information given in course of communication is from the best of our knowledge of the products. All recommendations and suggestions are believed to be reliable within limited scope, but should not be construed as warranties. Tidol Corporation, their associated companies and directors disclaim any liability in connection with the purchase, transportation, storage and the use of the product or any data communication.

This Safety data sheet was prepared in compliance with Canadian Hazardous Products Act. 1985, c.H-3 and Hazardous products Regulations 2015-17, Globally Harmonized System of Classification and Labeling of Chemicals and Guidance on the preparation of Safety Data Sheets.