

## SAFETY DATA SHEET

Preparation Date: 5/27/2014

Revision Date: 4/26/2018

Revision Number: G4

### 1. IDENTIFICATION

#### Product identifier

**Product code:** A1001  
**Product Name:** ACETIC ACID, GLACIAL, ELECTRONIC GRADE

#### Other means of identification

**Synonyms:** Glacial Acetic Acid  
**CAS #:** 64-19-7  
**RTECS #** AF1225000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Laboratory reagent.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Flammable liquids	Category 3

#### Label elements

##### **Danger**

##### **Hazard statements**

Harmful in contact with skin  
 Harmful if inhaled  
 Causes severe skin burns and eye damage  
 Flammable liquid and vapor



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

May be harmful if swallowed

Harmful to aquatic life with long lasting effects

Harmful to aquatic life

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/.../equipment

Use only non-sparking tools

Take precautionary measures against static discharge

**Precautionary Statements - Response**

*Immediately call a POISON CENTER or doctor/physician*

In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish.

IF IN EYES: 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.

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components	CAS-No.	Weight %
Acetic Acid, glacial	64-19-7	100

**4. FIRST AID MEASURES**

**Product code:** A1001

**Product name:** ACETIC ACID,  
GLACIAL, ELECTRONIC GRADE

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## First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.
- Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is conscious, give water or milk. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

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

- Symptoms**
- Severe skin and eye irritation or burns
  - May cause abdominal pain, nausea, vomiting, diarrhea
  - Burning sensation in the mouth and stomach
  - Can burn mouth, throat, and stomach
  - Thirst
  - Irritating to respiratory system
  - May cause bronchitis
  - May cause build-up of fluid in the lungs (pulmonary edema)
  - Dyspnea (Shortness of breath and difficulty breathing)
  - Coughing and wheezing
  - Sneezing
  - May cause central nervous system effects
  - Convulsions
  - Blackening and erosion of teeth

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

- Notes to Physician:** Treat symptomatically.

### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## **5. FIRE-FIGHTING MEASURES**

### Extinguishing Media

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Alcohol-resistant foam. Water spray.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter and spread fire.

## Specific hazards arising from the chemical

### **Hazardous Combustion Products:**

Carbon Monoxide, Carbon Dioxide.

### **Specific hazards:**

Flammable. May be ignited by heat, sparks or flames. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Container explosion may occur under fire conditions or when heated. Fire may produce irritating, corrosive and/or toxic gases.

## Special Protective Actions for Firefighters

### **Specific Methods:**

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

### **Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## **6. ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions:**

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

### Methods and material for containment and cleaning up

#### **Methods for containment**

Stop leak if you can do it without risk.

#### **Methods for cleaning up**

Neutralize with Sodium carbonate or Sodium bicarbonate. Dilute with water. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

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

**Technical Measures/Storage Conditions:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

**Incompatible Materials:**

- Oxidizing agents
- Reducing agents
- Metals
- Bases
- Acids

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Acetic Acid, glacial	64-19-7	10 ppm TWA 25 mg/m <sup>3</sup> TWA	10 ppm TWA 25 mg/m <sup>3</sup> TWA 15 ppm STEL 37 mg/m <sup>3</sup> STEL	15 ppm STEL 10 ppm TWA	None

**Canada**

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Acetic Acid, glacial	64-19-7	10 ppm TWA 25 mg/m <sup>3</sup> TWA 15 ppm STEL 37 mg/m <sup>3</sup> STEL	10 ppm TWA 15 ppm STEL	10 ppm TWA 15 ppm STEL	10 ppm TWA EV 25 mg/m <sup>3</sup> TWA EV 15 ppm STEV 37 mg/m <sup>3</sup> STEV

**Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Acetic Acid, glacial	64-19-7	15 ppm STEL 37 mg/m <sup>3</sup> STEL  10 ppm TWA 25 mg/m <sup>3</sup> TWA	10 ppm TWA 25 mg/m <sup>3</sup> TWA 15 ppm STEL 37 mg/m <sup>3</sup> STEL

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

## Personal Protective Equipment

<b>Eye protection:</b>	Face-shield and Goggles
<b>Skin and body protection:</b>	Chemical resistant protective suit Gloves Boots
<b>Respiratory protection:</b>	Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> No information available.	<b>Color:</b> Clear. Colorless.
<b>Odor:</b> Pungent. Vinegar-like. Sour.	<b>Taste</b> Vinegar. Sour.	<b>Formula:</b> C2-H4-O2
<b>Molecular/Formula weight:</b> 60.05	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> 39 °C/102.2 °F 43 °C/109.4 °F
<b>Flash Point Tested according to:</b> Closed cup Open cup	<b>Autoignition Temperature (°C/°F):</b> 463 °C/865 °F	<b>Lower Explosion Limit (%):</b> 4%
<b>Upper Explosion Limit (%):</b> 19.9%	<b>Melting point/range(°C/°F):</b> 16.6 °C/619. °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 118.1 °C/244.6 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> 1.049	<b>pH:</b> pH of a 1% solution: 2 [Acidic]	<b>Vapor pressure @ 20°C (kPa):</b> 1.5
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> 2.07	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> 0.48	<b>Partition coefficient (n-octanol/water):</b> -0.2	<b>Viscosity:</b> No information available
<b>Miscibility:</b> Miscible with alcohol Miscible with Benzene Miscible with Carbon tetrachloride Miscible with Glycerol	<b>Solubility:</b> Freely soluble in water Soluble in Acetone Soluble in Ether Practically insoluble in Carbon tetrachloride	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reacts violently with strong oxidizing agents, acetaldehyde, and acetic anhydride. It can react with metals, strong bases, amines, carbonates, hydroxides, phosphates, many oxides, cyanides, sulfides, chromic acid, nitric acid, hydrogen peroxide, carbonates, ammonium nitrate, ammonium thiosulfate, chlorine trifluoride, chlorosulfonic acid, perchloric acid, permanganates, xylene, oleum, potassium hydroxide, sodium hydroxide, phosphorus isocyanate, ethylenediamine, ethylene imine. Acetic acid vapors may form explosive mixtures with air. Reactions between acetic acid and the following materials are potentially explosive: 5-azidotetrazole, bromine pentafluoride, chromium trioxide, hydrogen peroxide, potassium permanganate, sodium peroxide, and phosphorus trichloride. Dilute acetic acid and dilute hydrogen can undergo an exothermic reaction if heated, forming peracetic acid which is

explosive at 110 degrees C. Reaction between chlorine trifluoride and acetic acid is very violent, sometimes explosive.

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Oxidizing agents  
Reducing agents  
Metals  
Bases  
Acids

**Hazardous decomposition products:** carbon oxides.

### Other Information

**Corrosivity:** Highly corrosive in the presence of stainless steel (304)  
Slightly corrosive in presence of aluminum  
Non-corrosive in presence of stainless steel (316)  
Moderate corrosive effect on bronze

**Special Remarks on Corrosivity:** No corrosion data on brass

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Skin. Ingestion. Inhalation. Eyes.

### Acute Toxicity

### Component Information

Acetic Acid, glacial

CAS-No. 64-19-7

**LD50/oral/rat** = 3310 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 3530 mg/kg  
**LD50/dermal/rabbit** = 1060 mg/kg Dermal LD50 Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 11.4 mg/L Inhalation LC50 Rat 4 h  
**LC50/inhalation/mouse** = 5620 ppm 1 h  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 3310 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 3530 mg/kg

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**LD50/dermal/rabbit****VALUE-Acute Tox Dermal** = 1060 mg/kg**LD50/dermal/rat****VALUE -Acute Tox Dermal** = No information available**LC50/inhalation/rat****VALUE-Vapor** = 11.4 mg/l (4-hr)**VALUE-Gas** = No information available**VALUE-Dust/Mist** = No information available**LC50/Inhalation/mouse****VALUE-Vapor** = No information available**VALUE - Gas** = 5620 ppm 1 hr**VALUE - Dust/Mist** = No information available**Symptoms**

<b>Skin Contact:</b>	Corrosive. Severe skin irritation. Causes skin burns. Can cause burning pain, inflammation and blisters. Harmful in contact with skin. May be absorbed through the skin in harmful amounts.
<b>Eye Contact:</b>	Severe eye irritation. Causes lacrimation. Causes conjunctivitis. Causes conjunctival irritation. Causes eye burns. Causes corneal damage. May cause blurred or foggy vision. May cause permanent injury.
<b>Inhalation</b>	Harmful by inhalation. Causes severe respiratory tract irritation. May cause chemical pneumonitis, bronchitis, and pulmonary edema. Severe exposure may result in lung tissue damage and corrosion (ulceration) of the mucous membranes. Inhalation may also cause rhinitis, sneezing, coughing, oppressive feeling in the chest or chest pain, dyspnea, wheezing, tachypnea, cyanosis, salivation, nausea, giddiness, muscular weakness.
<b>Ingestion</b>	Causes digestive (gastrointestinal) tract irritation. Causes digestive or gastrointestinal tract burns. Symptoms include burning and pain of the mouth, throat, and abdomen, coughing, ulceration, bleeding, nausea, abdominal spasms, vomiting, hematemesis, diarrhea. May cause perforation of the digestive tract. May cause permanent damage of the esophagus and digestive tract. May Also affect the liver (impaired liver function), behavior (convulsions, giddiness, muscular weakness), and the urinary system - kidneys (Hematuria, Albuminuria, Nephrosis, acute renal failure, acute tubular necrosis). May also cause dyspnea or asphyxia. May also lead to shock, coma and death. May cause thirst.
<b>Aspiration hazard</b>	No information available.

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

<b>Chronic Toxicity</b>	Chronic exposure via ingestion may cause blackening or erosion of the teeth and jaw necrosis, pharyngitis, and gastritis. It may also behavior (similar to acute ingestion), and metabolism (weight loss). Chronic exposure via inhalation may cause asthma and/or bronchitis with cough, wheezing, phlegm, and/or shortness of breath. Some researchers consider acetic acid capable of causing a syndrome known as "reactive airways dysfunction." or RADS. This syndrome resembles bronchial asthma, but differs in that exposure to small doses does not cause a reaction a few weeks after onset. It may also affect the blood (decreased leukocyte count), and urinary system (kidneys). Repeated or prolonged skin contact may cause thickening, blackening, and cracking of the skin.
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**Sensitization:** No information available.

**Mutagenic Effects:** Mutations in microorganisms  
Experiments with bacteria and/or yeast have shown mutagenic effects  
Cytogenic analysis - hamster ovary  
Sister Chromatid Exchange (human lymphocyte)

**Carcinogenic effects:** Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Acetic Acid, glacial	64-19-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** Teeth. Respiratory system. Lungs. Skin.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** Aquatic environment.

*Acetic Acid, glacial - 64-19-7*

**Freshwater Fish Species Data:** 79 mg/L LC50 Pimephales promelas 96 h static 1 75 mg/L LC50 Lepomis macrochirus 96 h static 1

**Water Flea Data:** 65 mg/L EC50 Daphnia magna 48 h 47 mg/L EC50 Daphnia magna 24 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

**Product code:** A1001

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GLACIAL, ELECTRONIC GRADE

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Acetic Acid, glacial	64-19-7	None	None	None	None

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Class:** 3  
**Packing group:** II  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant:** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions:** No Information available  
**Symbol(s):** [DOT]: (R5) - Identifies a material that is a hazardous substance that has a reportable quantity (RQ) of 5000 pounds (2270 Kilograms).  
**Description:** UN2789,Acetic acid, glacial ,8,(3),,PG II

**TDG (Canada)**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Marine Pollutant:** No Information available  
**Description:** ACETIC ACID, GLACIAL,8,UN2789,PG II

**ADR**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Packing Group:** II  
**Subsidiary Risk:** 3  
**Description:** UN2789 Acetic acid, glacial,8,II

**IMO / IMDG**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Marine Pollutant:** No information available  
**EMS:** F-E

**RID**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 8 + 3  
**Packing Group:** II

**Description:** UN2789 Acetic acid, glacial,8,II,RID

**ICAO**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**Description:** Acetic acid, glacial,8(3),UN2789,PG II

**IATA**

**UN-No:** UN2789  
**Proper Shipping Name:** Acetic acid solution  
**Hazard Class:** 8  
**Subsidiary Risk:** 3  
**Packing Group:** II  
**ERG Code:** 8F  
**Special Provisions** No information available  
**Description:** UN2789,Acetic acid, glacial,8(3),PG II

**15. REGULATORY INFORMATION**

**International Inventories**

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Acetic Acid, glacial	64-19-7	PresentACTIV E	Present KE-00013	Present	Present (2)-688	Present	Present	Present 200-580-7

**U.S. Regulations**

*Acetic Acid, glacial*

- Massachusetts RTK:** Present
- New Jersey RTK Hazardous Substance List:** 0004
- New Jersey - Discharge Prevention - List of Hazardous Substances:** Present
- Pennsylvania RTK:** Environmental hazard
- Pennsylvania RTK - Environmental Hazard List** Present
- Minnesota - Hazardous Substance List:** Present
- New York Release Reporting - List of Hazardous Substances:**  
5000 lb RQ  
100 lb RQ
- Louisiana Reportable Quantity List for Pollutants:** 5000lbfinal RQ  
2270kgfinal RQ
- California Directors List of Hazardous Substances:** Present
- FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1005

**FDA - 21 CFR - Total Food Additives** 133.123, 133.124, 133.169, 133.173, 133.178, 133.179, 172.814, 173.370, 184.1005, 73.85

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Acetic Acid, glacial	64-19-7	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

**Product code:** A1001

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Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Acetic Acid, glacial	64-19-7	5000 lb final RQ 2270 kg final RQ	None	None	None	None

### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Acetic Acid, glacial	64-19-7	Not Applicable	Not Applicable

### Canada

#### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
Acetic Acid, glacial  
64-19-7 ( 100 )

WHMIS 2015 Hazard Classification  
Flammable liquids - Category 3: H226 Flammable liquid and vapour.; Corrosive to Metals - Category 1: H290 May be corrosive to metals. (potentially corrosive to metals; the supplier should be contacted for more information); Acute toxicity - Inhalation - Category 4: H332 Harmful if inhaled.; Health Hazard Not Otherwise Classified - Category 1: Causes severe damage to the respiratory tract; Skin corrosion/irritation - Category 1: H314 Causes severe skin burns and eye damage.; Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### WHMIS 1988 Hazard Class

B3 Combustible liquid  
E Corrosive material

**Components**  
Acetic Acid, glacial

WHMIS 1988  
B3,E including 10-80% [Available data does not allow a precise evaluation of the threshold concentration from which solutions meet the B3 criterion], >80%  
D2B 3-10%

#### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Components	WHMIS Ingredient Disclosure List -
Acetic Acid, glacial	1 %

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Acetic Acid, glacial	64-19-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Acetic Acid, glacial	64-19-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Acetic Acid, glacial	64-19-7	Not listed

## EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Acetic Acid, glacial	64-19-7	Flammable liquids - Flam. Liq. 3: H226 Flammable liquid and vapour.; Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C >= 90 %) 607-002-00-6 Skin corrosion/irritation - Skin Corr. 1A: H314 Causes severe skin burns and eye damage. (C >= 90 %); Skin corrosion/irritation - Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (25 % <= C <90 %); Skin corrosion/irritation - Skin Irrit. 2: H315 Causes skin irritation. (10 % <= C <25 %); Serious Eye Damage/Eye Irritation - Eye Irrit. 2: H319 Causes serious eye irritation. (10 % <= C <25 %) 607-002-00-6

EU - CLP (1272/2008)

### R-phrase(s)

R35 - Causes severe burns.

R10 - Flammable.

### S -phrase(s)

S23 - Do not breathe gas/fumes/vapor/spray.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 1/2 - Keep locked up and out of the reach of children.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Acetic Acid, glacial	64-19-7	R10 C; R35	10%<=C<25% Xi; R36/38 90%<=C C; R35 25%<=C<90% C; R34	S: (1/2)-23-26-45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

C - Corrosive.

Flammable



## 16. OTHER INFORMATION

Preparation Date: 5/27/2014

Product code: A1001

Product name: ACETIC ACID,  
GLACIAL, ELECTRONIC GRADE

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**Revision Date:**  
**Prepared by:**

4/26/2018  
Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**