

**Section 1: Product & Company Information**

**Product Identifier:** Acetic Acid 56%

**Other Means of Identification**

Product Number: No data available.

**Recommended Use and Restrictions on Use**

Recommended Use: Solvent  
Restrictions on Use : No data available.

**Manufacturer / Importer / Supplier / Distributor Information**

**Company Name:** CORECHEM Inc.

**Address:** 4320 Greenway Drive  
Knoxville, TN 37918  
USA

**Information Telephone Number:** 1-865-524-4239

**Fax Number:** 1-865-524-3375

**Website:** www.corecheminc.com

**Contact Person:** Regulatory Manager

**E-mail:** regulatory@corecheminc.com

**Emergency Phone Number:** Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

**Section 2: Hazards Identification**

**GHS Hazard Classification(s)**

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

**Physical Hazard(s)**

Flammable, Liquids - 4

**Health Hazard(s)**

Corrosion/Irritation, Skin – 1B  
(Corrosion)Damage/Irritation, Eye - 1

**Environmental Hazard(s)**

Not classified.

**Label Elements**

**Signal Word**

**DANGER**

**Hazard Symbol(s)**



**Hazard Statement(s)**

H227: Combustible liquid.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.

**Precautionary Statements**

**General**

Not applicable.

**Prevention**

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P264: Wash face, hands and any exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

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.  
P304 + P340: IF INHALED: Remove to fresh air and keep at rest in a position 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 or doctor/physician.  
P321: Specific treatment (see supplemental first aid instructions on this label).  
P363: Wash contaminated clothing before reuse.  
P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

**Storage**

P403 + P235: Store in a well-ventilated place. Keep cool.  
P405: Store locked up.

**Disposal**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Section 3: Composition/Information on Ingredients**

**Mixture**

| Chemical Identity <sup>2</sup> | Common Name/Synonym(s) | CAS # <sup>3</sup> | Weight % | Impurity or Stabilizing Additive |
|--------------------------------|------------------------|--------------------|----------|----------------------------------|
| Acetic Acid                    | -                      | 64-19-7            | 50 - 80% | No                               |

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

**Section 4: First-Aid Measures**

**General Information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

**Inhalation**

Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.

**Skin Contact**

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control centre immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye Contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician or poison control centre immediately.

**Ingestion**

Seek medical advice

**Most important symptoms/effects, acute and delayed**

**Symptoms**

Irritating to eyes, respiratory system and skin. Causes serious eye damage. Causes severe burns.

**Indication of immediate medical attention and special treatment needed**

**Hazards**

No data available.

**Treatment**

Treat symptomatically.

**Section 5: Fire-Fighting Measures**

**General Fire Hazards**

No data available.

**Suitable (and Unsuitable) Extinguishing Media**

**Suitable Extinguishing Media**

Use water spray to extinguish. Dry chemical, Carbon dioxide (CO<sub>2</sub>), Alcohol-resistant foam.

**Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Chemical**

Flammable liquid and vapor.

**Special Protective Equipment and Precautions for Firefighters**

**Special Fire-Fighting Equipment Procedures**

No data available.

**Special Protective Equipment for Fire-Fighters**

Wear an approved positive pressure self-contained breathing apparatus in addition to standard firefighting gear.

**Section 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Wear appropriate personal protective equipment.

**Methods and Materials for Containment and Clean-Up**

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /national regulations (see section 13).

**Notification Procedures**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental Precautions**

Avoid release to the environment.

**Section 7: Handling and Storage**

**Precautions for Safe Handling**

Do not get in eyes or mouth or on skin. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling

**Conditions for Safe Storage, including any Incompatibilities**

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

**Section 8: Exposure Controls/Personal Protection**

**Control Parameters**

**Occupational Exposure Limits**

| Chemical Identity           | Type | Value           | Source                           |
|-----------------------------|------|-----------------|----------------------------------|
| Acetic Acid (CAS # 64-19-7) | TWA  | 10 ppm          | US. ACGIH Threshold Limit Values |
|                             | STEL | 15 ppm          | US. ACGIH Threshold Limit Values |
|                             | TWA  | 10 ppm 25 mg/m3 | US OSHA Table Z-1                |

**Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment (PPE)**

**General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Skin Protection**

**Hand Protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**Section 9: Physical and Chemical Properties**

**Appearance:**

Physical State: Liquid  
Color: Colorless

**Odor:**

Pungent

**Odor Threshold:**

No data available.

**pH:**

2.4, Concentration: 60 g/l

**Melting Point/Freezing Point:**

16.64 °C

**Initial Boiling Point and Boiling Range:**

117.9 °C

**Flash Point:**

> 60 °C

**Evaporation Rate (butyl acetate=1):**

No data available.

**Flammability (solid, gas):**

Not applicable

**Upper/Lower Limit on Flammability or Explosive Limits**

|   |   |
|---|---|
| Flammability Limit – Upper:                     | No data available.  |
| Flammability Limit – Lower:                     | No data available.  |
| Explosive Limit – Upper:                        | 19.9 %(V)   |
| Explosive Limit – Lower:                        | 4 %(V)  |
| <b>Vapor Pressure:</b>                          | 20.79 hPa (25 °C)   |
| <b>Vapor Density</b> (air =1):                  | 2.1   |
| <b>Relative Density</b> (water=1):              | 1.0446 (25 °C)  |
| <b>Solubility(ies):</b>                         |   |
| Solubility in water:                            | 602.9 g/l (25 °C)   |
| Solubility (other):                             | No data available.  |
| <b>Partition coefficient (n-octanol/water):</b> | log Pow: -0.17  |
| <b>Auto-Ignition Temperature:</b>               | 463 °C  |
| <b>Decomposition Temperature:</b>               | Thermal stability not tested. Low stability hazard expected at normal operating temperatures. |
| <b>Viscosity, dynamic</b>                       | 1.056 mPa.s (25 °C)   |
| <b>Viscosity, kinematic</b>                     | 1.011 mm <sup>2</sup> /s  |
| <b>Other Information:</b>                       |   |
| Molecular Weight:                               | No data available.  |
| Formula:  | No data available.  |

## Section 10: Stability and Reactivity

### Reactivity

Stable

### Chemical Stability

Stable under normal conditions.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Heat, sparks, flames.

### Incompatible Materials

Strong oxidizing agents.

### Hazardous Decomposition Products

Carbon Dioxide. Carbon Monoxide.

## Section 11: Toxicological Information

### Information on routes of exposure

**Ingestion:** May cause burns of the gastrointestinal tract if swallowed.

**Inhalation:** Irritating to respiratory system.

**Skin Contact:** Causes severe skin burns.

**Eye Contact:** Causes serious eye damage.

### Information on Toxicological Effects

#### Acute Toxicity (List all possible routes of exposure)

##### Oral

Acetic Acid: LD50 (Rat): 3,320 mg/kg

##### Dermal

Acetic Acid: LD50 (Rabbit): 1,060 mg/kg

##### Inhalation

Acetic Acid: LC50 (Rat, 4 h): > 16,000 ppm

##### Repeated Dose Toxicity

Acetic Acid: NOAEL (Rat): 290 mg/kg (Oral Study)

Acetic Acid: NOAEL (Rat): 30 mg/kg (Dermal Study)

### Skin Corrosion/Irritation

Causes severe burns.

### Serious Eye Damage/Eye Irritation

Causes serious eye damage

### Respiratory/Skin Sensitization

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

### Carcinogenicity

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### US. National Toxicology Program (NTP) Report on Carcinogens

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Germ Cell Mutagenicity**

**In Vitro**

No mutagenic components identified.

**In Vivo**

No mutagenic components identified.

**Reproductive Toxicity**

None known.

**Specific Target Organ Toxicity – Single Exposure**

None known.

**Specific Target Organ Toxicity – Repeated Exposure**

None known.

**Aspiration Hazard**

Not classified.

**Other Effects**

None known.

**Section 12: Ecological Information**

**Ecotoxicity**

**Acute Hazards to the Aquatic Environment**

**Fish**

Acetic Acid: LC50 (Fathead Minnow, 96 h): 300.82 mg/l

**Aquatic Invertebrates**

Acetic Acid: EC50 (Daphnid, 48 h): > 300.82 mg/l

**Toxicity to Aquatic Plants**

No data available.

**Chronic Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

Acetic Acid: EC50 (Alga, 72 h): 300.82 mg/l

**Persistence and Degradability**

**Biodegradation**

There are no data on the degradability of this product.

**BOD/COD Ratio**

No data available.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

No data available.

**Mobility in Soil**

No data available.

**Other Adverse Effects**

No data available.

**Section 13: Disposal Considerations**

**Disposal Instructions**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Contaminated Packaging**

Handle contaminated packages in the same way as the substance itself. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks, and flames. Do not cut, puncture, or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

### Section 14: Transportation Information

#### US Department of Transportation (DOT)

UN Number: UN2790  
UN Proper Shipping Name: Acetic Acid Solution  
Technical Name: -  
Hazard Class: 8  
Subsidiary Hazard Risk: -  
Packing Group: II  
DOT Label/Placard Exemptions: Not determined  
Special Provisions: A3, A6, A7, A10, B2, IB2, T7, TP2  
Packaging Exceptions: 49CFR 173.154  
Packaging Non-Bulk: 49CFR 173.202  
Packaging Bulk: 49CFR 173.242  
Reportable Quantity (RQ): 5,000lb (2,270kg)  
Marine Pollutant: No  
Poison Inhalation Hazard: No  
Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.  
Emergency Response Guidebook (ERG) #: 153

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

### Section 15: Regulatory Information

#### US Federal Regulations

##### Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

The following chemical(s) in this material are subject to reporting levels established by CERCLA:

Acetic Acid (CAS# 64-19-7)

##### Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

##### Emergency Planning and Community Right-To-Know Act (EPCRA)

###### EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

###### EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

###### EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: Yes  
Sudden Release of Pressure: No  
Reactive: No  
Acute (Immediate) Health Hazard: Yes  
Chronic (Delayed) Health Hazard: No

###### EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*

### Section 16: Other Information

#### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 3  
Chronic Health Hazard: /  
Flammability: 2  
Physical Hazard: 0  
(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

#### National Fire Protection Association (NFPA 704) Rating

Health Hazard: 3  
Fire Hazard: 2  
Reactivity Hazard: 0  
Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By: Regulatory Manager  
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Revisions: -

**Key to Abbreviations and Acronyms**

|   |   |
|---|---|
| ATE - Acute Toxicity Estimate                   | ACGIH - American Conference of Industrial Hygienists                          |
| BCF - Bioconcentration Factor                   | AIHA – American Industrial Hygiene Association                                |
| EC50 - Effective concentration, 50%             | BEI - Biological Exposure Indices   |
| IDHL – Immediately Dangerous to Life and Health | CAS – Chemical Abstracts Service  |
| Kg – Kilogram                                   | DOT – US Department of Transportation   |
| l – Liter                                       | EPA – US Environmental Protection Agency                                      |
| lb – Pound                                      | GHS - Globally Harmonized System of Classification and Labelling of Chemicals |
| LC50 - Lethal Concentration, 50%                | IARC - International Agency for Research on Cancer                            |
| LD50 - Lethal Dose, 50%                         | IATA - International Air Transport Association                                |
| mg - milligram                                  | IBC - Intermediate Bulk Container   |
| ml – milliliter                                 | IMDG - International Maritime Dangerous Goods                                 |
| N/A – Not Applicable                            | NIOSH – National Institute for Occupational Safety and Health                 |
| N/D – Not Determined                            | NTP – National Toxicology Program   |
| PEL – Permissible Exposure Limit                | OSHA – US Occupational Health and Safety Administration                       |
| REL – Recommended Exposure Limit                | SARA – US EPA Superfund Amendments and Reauthorization Act                    |
| STEL – Short-term Exposure Limit                | TSCA – US EPA Toxic Substances Control Act                                    |
| TWA - Time weighted average                     | UN - United Nations   |

**References**

HSDB® - Hazardous Substances Data Bank

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