

Section 1: Product & Company Information

Product Identifier: Acetic Acid, Glacial, FG

Other Means of Identification

Product Number: 120055

Recommended Use and Restrictions on Use

Recommended Use: Industrial applications

Restrictions on Use: None known.

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 - 3

Health Hazard(s)

Corrosion/Irritation, Skin - 1A

Environmental Hazard(s)

Not classified.

Label Elements

Signal Word

DANGER

Hazard Symbol(s)



Hazard Statement(s)

H226: Flammable liquid and vapor.

H314: Causes severe skin burns and eye damage.

Precautionary Statements

General

Not applicable.

Prevention

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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.
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 + P233: Store in a well-ventilated place. Keep container tightly closed.
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

Substance

Chemical Identity ²	Common Name/Synonym(s)	CAS # ³	Weight %	Impurity or Stabilizing Additive
Acetic Acid		64-19-7	>99%	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

Remove contaminated, soaked clothing immediately and dispose of safely. Pay attention to your own protection. In any case, show the physician the Safety Data Sheet.

Inhalation

If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Do not use mouth to mouth method if the victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.

Skin Contact

Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. Discard contaminated shoes. Seek immediate medical attention for chemical burns.

Eye Contact

Immediately flush your eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after the first 2 minutes and continue rinsing. Seek immediate medical attention, preferably from an ophthalmologist

Ingestion

Rinse mouth with water if the victim is conscious. Remove dentures if present. Give 2 glasses of water or milk to drink if the victim is conscious, alert, and able to swallow. DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek medical attention.

Most important symptoms/effects, acute and delayed

Symptoms

Eyes: Causes severe burns and serious damage to eyes. Symptoms may include redness, swelling, pain, tearing, burns, blurred vision, corneal clouding, permanent eye damage, and blindness. May cause irreversible eye injury. Mist or vapor can cause severe eye damage.

Skin: Causes skin burns and tissue damage. Symptoms include localized redness, blistering, itching, and pain. May be harmful if absorbed through the skin. Contact with skin may cause blackening and hyperkeratosis of the skin and hands.

Inhalation: Harmful if inhaled. Causes chemical burns to the respiratory tract with mucosal irritation, cough and shortness of breath. Exposure may lead to bronchitis, pharyngitis, edemas in the respiratory tract and dental erosion. Effects may be delayed. May be absorbed through the lungs.

Ingestion: Harmful if swallowed. Causes burns to the lips, mouth, throat and gastrointestinal tract. May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea and shock. May cause damage to the kidneys and kidney failure. Rapidly absorbed from the gastrointestinal tract. Pulmonary failure is possible after aspiration of vomit.

Chronic: Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this material. Chronic exposure may cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin and chronic inflammation of the respiratory tract. May cause occupational asthma. Effects may be delayed. Skin sensitization to acetic acid is rare but has occurred.

Indication of immediate medical attention and special treatment needed

Hazards

No data available.

Treatment

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

Section 5: Fire-Fighting Measures

General Fire Hazards

Flammable liquid and vapor.

Suitable (and Unsuitable) Extinguishing Media

Suitable Extinguishing Media

Use extinguishing media such as water fog or spray dry chemical, carbon dioxide or foam.

Unsuitable Extinguishing Media

Do not use a solid stream of water as it may scatter and spread a fire.

Specific Hazards Arising from the Chemical

Flammable liquid and vapor. Vapors are heavier than air and can travel along the ground to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Exposure to ignition sources (e.g. cell phones) can ignite vapors, causing a flash fire. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention. Explosion hazards: Vapors may form an explosive mixture with air at high temperatures, especially in confined spaces.

Special Protective Equipment and Precautions for Firefighters

Special Fire-Fighting Equipment Procedures

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination.

Special Protective Equipment for Fire-Fighters

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

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment. Ventilate the area. Remove all sources of ignition. NO SMOKING. Clean up spills immediately. Spills create a slip hazard.

Methods and Materials for Containment and Clean-Up

Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal. Cover drains and contain spill. Carefully neutralize the spill with soda ash (sodium carbonate) or calcium carbonate. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect product using non-sparking tools and place into an approved container for proper disposal. Do not use a metal container for disposal.

Notification Procedures

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

Environmental Precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements.

Section 7: Handling and Storage

Precautions for Safe Handling

Avoid contact with eyes, skin, and clothing. Do not breathe vapor or spray mist. Do not swallow. Eliminate every possible source of ignition, keep container tight closed when not in use. Carefully vent any internal pressure before removing closure. Wear the recommended personal protective equipment. After handling, always wash your hands thoroughly with soap and water. Avoid contact with incompatible agents. Use only with adequate ventilation/personal protection. Do not enter storage areas unless adequately ventilated. Metal containers involved in the transfer of this material should be grounded and bonded. Acid or caustic must be transferred only through hose rated and certified for this service. Inspect frequently to identify bulging or leaking containers. Handle empty containers with care; residue may be harmful to eyes and skin. Do not overfill containers which may burst on freezing. Thaw frozen containers only at room temperature. Isolate, vent, drain, wash and purge systems or equipment before maintenance or repair. Check the atmosphere for explosiveness and oxygen deficiencies. Observe precautions pertaining to confined space entry. Do not pressurize or expose empty containers to open flame, sparks, or heat.

Conditions for Safe Storage, including any Incompatibilities

Store in the original container in dry, cool, well-ventilated areas away from incompatible materials, food and drink. Ground and bond containers when transferring material. Transfer only to approved containers having correct labeling. DO NOT store it in metal containers. Keep containers tightly closed when not in use. Protect containers from physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat or ignition sources. Containers are hazardous when empty as they contain product residue. Use appropriate containment to avoid environmental contamination. ventilate closed areas. Keep locked up and out of reach of children.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Value	Source
Acetic Acid	TWA	10 ppm	US. ACGIH Threshold Limit Values
Acetic Acid	STEL	15 ppm	US. ACGIH Threshold Limit Values
Acetic Acid	TWA	10 ppm; 25 mg/m ³	2005 NIOSH
Acetic Acid	PEL	10 ppm; 25 mg/m ³	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

Engineering controls, preferably enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Engineering controls, preferably enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used.

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. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/Face Protection

Wear chemical goggles when there is a reasonable chance of contact with the eyes. In addition to goggles, wear a face shield if there is a reasonable chance for a splash to the face.

Skin Protection

Hand Protection

Wear protective gloves to prevent contact. Wear gloves made of Neoprene, butyl rubber or those recommended by glove supplier for protection against materials in section 3. Gloves should be impermeable to chemical and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Other

Wear protective clothing. Wear protective boots if the situation requires.

Respiratory Protection

Always use an approved respirator when vapor/aerosols exceed permissible exposure limits. Where risk assessment shows air-purifying respirators are appropriate use a half-mask respirator with multi-purpose combination (US) or type ABEK (EN 14382) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US). Follow OSHA respirator regulations found in 29 CFR 1910.134.

Hygiene Measures

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated footwear that cannot be cleaned. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Avoid contact with eyes, skin, and clothing.

Section 9: Physical and Chemical Properties

Appearance:

Physical State: Liquid
Color: Colorless

Odor: Pungent, vinegar-like

Odor Threshold: 0.23-100.1 ppm

pH: 2.4

Melting Point/Freezing Point: 17 °C (62.6 ° F)

Initial Boiling Point and Boiling Range: 118. °C (244.4 ° F)

Flash Point:

102°F (39°C) at 1,013 hPa (760 mm Hg)

Evaporation Rate (butyl acetate=1): No data available.
Flammability (solid, gas): No data available.
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: 4.0 % (V)
Vapor Pressure: 20.79 hPa (25 °C)
Vapor Density (air =1): 2.07 (air = 1)
Relative Density (water=1): No data available.
Solubility(ies):
 Solubility in water: Soluble
 Solubility (other): No data available.
Partition coefficient (n-octanol/water): -1.17 @ 25°C
Auto-Ignition Temperature: No data available.
Decomposition Temperature: No data available.
Viscosity: 1.22 cPs @20 °C

Other Information:

Molecular Weight: 60.05 g/mol
 Formula: C₂H₄O

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal °C .

Chemical Stability

This material is expected to be stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur. This material reacts violently with oxidants forming flammable/explosive gas.

Conditions to Avoid

Heat, sources of ignition, temperature extremes, contact with incompatible materials contact with metals.

Incompatible Materials

Strong oxidizing agents, strong alkalis, bases, metals, amines, halogens, alcohols, peroxides, metal salts, acetaldehyde, potassium permanganate, carbonates, nonmetallic halides, various plastics, rubbers and coatings.

Hazardous Decomposition Products

Thermal decomposition products include oxides of carbon, hydrogen gas, and irritating toxic fumes.

Section 11: Toxicological Information

Information on routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: Causes serious skin burns and severe skin irritation.

Eye Contact: Causes serious burns and serious eye damage. Risk of blindness.

Information on Toxicological Effects

Acute Toxicity (List all possible routes of exposure)

Oral

LD50: Rat 3,310 mg/kg

Dermal

LC50: Rabbit 1,112 g/kg

Inhalation

LC50: Rat 11.4 mg/l, 4h

Repeated Dose Toxicity

No data available.

Skin Corrosion/Irritation

Causes serious skin burns and severe skin irritation.

Serious Eye Damage/Eye Irritation

Causes serious burns and serious eye damage. Risk of blindness.

Respiratory/Skin Sensitization

No data available.

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

LC50: Lepomis macrochirus (Bluegill/Sunfish), 96h: 75 mg/l

LC50: Pimephales promelas (Fathead minnow), static, 96h: 88 mg/l

Aquatic Invertebrates

LC50: Daphnia magna (Water flea), 24-48h: 32-47 mg/l

Toxicity to Aquatic Plants

LC50: Scenedesmus quadricauda (Green algae), 16h: 4,000 mg/l

Chronic Hazards to the Aquatic Environment

Fish

No data available.

Aquatic Invertebrates

No data available.

Toxicity to Aquatic Plants

No data available.

Persistence and Degradability

Biodegradation

Expected to be readily biodegradable.

BOD/COD Ratio

No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Material does not bioaccumulate.

Partition Coefficient n-octanol / water (log Kow)

No data available.

Mobility in Soil

The product is water soluble and may spread in water systems.

Other Adverse Effects

Do not allow material to run into surface waters, wastewater, or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13: Disposal Considerations

Disposal Instructions

Collect and reclaim or dispose of 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 chemicals 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: UN2789
UN Proper Shipping Name: Acetic acid, glacial
Technical Name: -
Hazard Class: 8 (3)
Subsidiary Hazard Risk: -
Packing Group: II
DOT Label/Placard Exemptions: Not determined
Special Provisions: A3, A7, A10, B2, IB2, T7, TP2
Packaging Exceptions: 49CFR 173.154
Packaging Non-Bulk: 49CFR 173.202
Packaging Bulk: 49CFR 173.243
Reportable Quantity (RQ): 1,000lb (454kg)
Marine Pollutant: No
Poison Inhalation Hazard: No
Special precautions for user: Transport within the 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) #: 132

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

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: Yes

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

Personal Protection: C

(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 Assistant C

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Last Revised By: -

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Current Revision: -

Sections Revised: -

Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

EC50 - Effective concentration, 50%

IDHL - Immediately Dangerous to Life and Health

Kg - Kilogram

l - Liter

lb - Pound

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

mg - milligram

ml - milliliter

N/A - Not Applicable

N/D - Not Determined

PEL - Permissible Exposure Limit

REL - Recommended Exposure Limit

STEL - Short-term Exposure Limit

TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists

AIHA - American Industrial Hygiene Association

BEI - Biological Exposure Indices

CAS - Chemical Abstracts Service

DOT - US Department of Transportation

EPA - US Environmental Protection Agency

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - US Occupational Health and Safety Administration

SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act

UN - United Nations

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

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