



Section 1 - Chemical Product and Company Identification

Product Name Acetic Acid 1N Solution
Product Code 18439
CAS No 64-19-7
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
64-19-7	Acetic acid	<=100	200-580-7

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Flammable. Causes severe burns.

Potential Health Effects

Eye: Causes severe eye burns. Contact with liquid or vapor causes severe burns and possible irreversible eye damage. May cause redness, pain, blurred vision and possible eye damage.

Skin: May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Causes severe burns with delayed tissue destruction. Causes redness and pain.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause diarrhea and labored breathing.

Inhalation: Effects may be delayed. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. Causes chemical burns to the respiratory tract.

Chronic: Prolonged or repeated skin contact may cause dermatitis. Repeated inhalation may cause chronic bronchitis. Repeated exposure may cause erosion of teeth.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures



General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Will burn if involved in a fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. Reacts with most metals to form highly flammable hydrogen gas which can form explosive mixtures with air. Flammable liquid and vapor.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Use water spray to dilute spill to a non-flammable mixture. Avoid runoff into storm sewers and ditches which lead to waterways. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment. Carefully neutralize the dilute spill with lime slurry, soda ash, limestone, caustic soda or other alkaline material.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Use spark-proof tools and explosion proof equipment. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges. Keep away from heat, sparks and flame. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry place. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Corrosives area. Store in a suitable container in a dry area above the substance's freezing point. Keep away from strong bases. Do NOT freeze.

Section 8 - Exposure Control / Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

Exposure Limits

CAS# 64-19-7:

United States OSHA: 10 ppm TWA; 25 mg/m³ TWA

Belgium - TWA: 10 ppm VLE; 25 mg/m³ VLE Belgium - STEL: 15 ppm VLE; 38 mg/m³ VLE

France - VLE: 10 ppm VLE; 25 mg/m³ VLE

Germany: 10 ppm TWA; 25 mg/m³ TWA

Japan: 10 ppm OEL; 25 mg/m³ OEL

Malaysia: 10 ppm TWA; 25 mg/m³ TWA

Netherlands: 10 ppm MAC; 25 mg/m³ MAC

Spain: 10 ppm VLA-ED; 25 mg/m³ VLA-ED Spain: 15 ppm VLA-EC; 37 mg/m³ VLA-EC



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Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

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Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: APHA: 10 max

Odor: pungent odor

pH: 2.5 (10 g/L aq.sol.)

Freezing/Melting Point: 16 - 16.5 deg C

Specific Gravity/Density: 1.048

Molecular Formula: C₂H₄O₂

Molecular Weight: 60.04

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, ignition sources, excess heat.

Incompatibilities with

Other Materials : Metals, strong oxidizing agents, strong bases, amines, ammonium nitrate, chlorine trifluoride, iron, nitric acid, permanganates, sodium peroxide, hydrogen peroxide, acetaldehyde, acids (mineral, oxidizing, e.g. chromic acid, hypochlorous acid, nitric acid, sulfuric acid), caustics (e.g. ammonia, ammonium hydroxide, calcium hydroxide, potassium hydroxide, sodium



hydroxide), chlorosulfonic acid, oleum, bromine pentafluoride, perchloric acid, potassium tert-butoxide.

Hazardous

Decomposition Products Carbon monoxide, carbon dioxide.

Hazardous Polymerization Will not occur.

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Section 11 - Toxicological Information

RTECS#:

CAS# 64-19-7: AF1225000

LD50/LC50:

RTECS:

CAS# 64-19-7: Draize test, rabbit, skin: 50 mg/24H Mild;

Inhalation, mouse: LC50 = 5620 ppm/1H;

Oral, rat: LD50 = 3310 mg/kg;

Skin, rabbit: LD50 = 1060 uL/kg;

Other: Inh rat LC50 = 11.4 mg/L/4H

Carcinogenicity: Acetic acid glacial - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Ecotoxicity:

Daphnia: EC50: 95 mg/l; 24H; .

Fish: Pimephals prome: LC50: 88 mg/l; 96H; .

Fish: Rainbow trout: LC100: >315 mg/l; 24H; .

Algae: 4000 mg/L; 7D; IC10

Fish: Bluegill/Sunfish: 75 mg/L; 96H; LC50

Algae: 156 mg/L; 24H; EC50

Other:

Biodegradable. Do not empty into drains.

Log Pow = -0.2BCF < 1Biodegradability: 99% / 30D

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.



Section 14 - Transport Information

Shipping Name: Hazard Class: UN Number: Packing Group:

IATA	ACETIC ACID, GLACIAL	8 (3)	2789	II
IMO	ACETIC ACID, GLACIAL	8 (3)	2789	II
RID/ADR	ACETIC ACID, GLACIAL	8 (3)	2789	II

USA RQ: CAS# 64-19-7: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 10 Flammable.

R 35 Causes severe burns.

Safety Phrases:

S 23 Do not inhale gas/fumes/vapour/spray.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 64-19-7: 1

Canada

CAS# 64-19-7 is listed on Canada's DSL List

US Federal

TSCA

CAS# 64-19-7 is listed on the TSCA Inventory.

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.