

Review Date: 4-Oct-2023

Section 1 - Chemical Product and Company Identification

Product Name Acetic Acid 2.5M Aq. Solution

Product Code 72690 **CAS No** 64-19-7

Use for Laboratory Chemicals.

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



www.srlchem.com

Product Code 72690

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



www.srlchem.com

Product Code 72690

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

Personal Protective Equipment

Wear chemical splash goggles. **Eyes:**

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.

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 VI A ED: 25 mg/m3 MAC

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

Personal Protective Equipment

Wear chemical splash goggles.

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.

Facilities storing or utilizing this material should be equipped with an eyewash **Engineering Controls:**

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:



www.srlchem.com

Product Code 72690

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

Personal Protective Equipment

Wear chemical splash goggles. Eves:

Wear appropriate protective gloves to prevent skin exposure.

Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard Respirators:

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.

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

Personal Protective Equipment

Eves: Wear chemical splash goggles.

Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard **Respirators:**

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.

Section 9 - Physical and Chemical Properties



www.srlchem.com

Product Code 72690

Physical State: Clear liquid APHA: 10 max 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.

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.

Section 11 - Toxicological Information



www.srlchem.com

Product Code 72690

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

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

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 < 1Biodegradibility: 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



www.srlchem.com

Product Code 72690

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.