

SAFETY DATA SHEET

ACETIC ACID, GLACIAL

Section 1 - Chemical Product and Company Identification

SDS Name: Acetic Acid, Glacial
Catalog Numbers: SO-618 & SO-788
Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923
for information, call: 978-739-4883
Emergency Number: 800-424-9300
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

HEALTH HAZARDS

H303-May be harmful if swallowed: 5
H312-Acute Dermal toxicity: 4
H332-Acute Inhalation toxicity: 4
H314-Skin Corrosion/Skin Irritation: 1C
H320-Eye damage/Irritation: 1
H372-Specific Target Organ Toxicity RE: 2

PHYSICAL HAZARDS

H290-Corrosive to Metals: 1
H226-Flammable Liquids: 3

ENVIRONMENTAL HAZARDS

Aquatic acute environmental Hazards: Not classified

Chronic environmental Hazards: Not classified

Pictograms or Hazard symbols and Hazard statement.



Warning: Harmful if inhaled



Warning: Flammable
liquid and vapor.



Warning: Causes severe skin burns and eye damage

May be corrosive to metals.



Warning: May be harmful if swallowed.



Warning: May cause damage to organs: Repeated or prolonged exposures may cause darkening of the skin, erosion of exposed front teeth, and chronic inflammation of the nose, throat, and bronchial tubes.

Precautionary Statement

H303

P312 Call a physician if you feel unwell.

H312

P280 Wear protective gloves, clothing, and eye and face protection.

P302 + P352 If on skin, wash with plenty of water.

P312 Call a physician if you feel unwell

P361 + P363 Take off immediately all contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

H314

P260 Do not breathe fume/gas/mist/vapors.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, clothing, and eye and face protection.

P301 + P330 + P331 If swallowed, rinse mouth. Do not induce vomiting.

P303 + P361 + P353 If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

P363 Wash contaminated clothing before reuse.

P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.

P310 Seek medical assistance if exposed.

P405 Store locked up.

P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

H320

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313-If eye irritation persists: Get medical advice/attention.

H332

P261 Avoid breathing fumes/mist/vapors.

P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.

1 Use only outdoors or in a well-ventilated area.

P312 Call a physician if you feel unwell.

H290

P234-Keep only in original container.

P390-Absorb spillage to prevent material damage.

P406-Store in corrosive resistant/container with a resistant inner liner.

H226

P210-Keep away from heat, flames, and hot surfaces. No smoking.

P233-Keep container tightly closed.

P240-Ground/bond container and receiving equipment.

P242-Use only non-sparking tools.

P243-Take precautionary measures against static discharge.

P280-Wear protective gloves, clothing, and eye and face protection.

P303+P361+P353-If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water.

P403+P235-Store in a well-ventilated place. Keep cool.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
64-19-7	Glacial Acetic Acid	80-100
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self-contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

Extinguishing Media: Use water spray, dry chemical powder, or appropriate foam.

Flash Point: 40C (104F)

Auto ignition temperature: 427C (801F)

Flammable limits in air% by volume:

Lel: 4.0; uel: 16.0.

NFPA Rating: (estimated) Health: 3; Flammability: 2; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s): Ventilate area of leak or spill. Remove all sources of ignition. Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Keep away from sources of ignition. Ground a equipment containing material. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Limits: OSHA. TWA: 10 STEL: 15 (ppm) Canada TWA: 26 STEL: 39(mg/m³)

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear
Odor: Pungent, vinegar, sour (Strong)
pH: acidic
Vapor Pressure: 15 kPa (@ 20°C)
Vapor Density: 2.07
Evaporation Rate: (BuAc=1): 0.97
Viscosity: N/A
Boiling Point: 118 °C
Solubility: Infinitely soluble
Molecular Weight: 60.05

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Conditions to Avoid: Heat, freezing.

Incompatibilities with Other Materials: Chromic Acid, ethylene glycol, perchloric acid, phosphorous trichloride, oxidizers, sodium peroxide, strong caustics, most metals (except aluminum), carbonates, hydroxides, oxides, and phosphates.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:

LD50/LC50:

CAS# 64-19-7:

Oral rat LD50: 3310 mg/kg.

Skin: rabbit LD50: 1.06 g/kg

Inhalation mouse LC50: 5620 ppm/1-hr; investigated as a mutagen, reproductive effector.

Carcinogenicity:

CAS# 64-19-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Section 12 - Ecological Information

Ecotoxicity:

CAS# 64-19-7. This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

Environmental: When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation:

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

DOT

Proper Shipping Name: Acetic Acid solution. (Corrosive)

Hazard class: 8, 3

UN/NA: UN2789

Packing Group: 11

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

R22 Harmful by inhalation, in contact with skin and if swallowed

R36/38 Irritating to eyes and skin

Safety Phrases:

S20/21 When using do not eat, drink or smoke

S2 Keep out of the reach of children.

S 7 Keep container tightly closed.

S 9 Keep container in a well-ventilated place

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. RC 8/20/13

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