



20% Vinegar

Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Form: Clear colourless liquid
Product Name: 20% Vinegar
Product Code: STC0670

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the mixture: pH Control

1.3 Details of the supplier of the safety data sheet

Sci-Tech Engineered Chemicals Inc.
9902 90th Avenue
Morinville AB, T8R 1K7
Ph: 780-960-1200 Fx: 780-960-1201
www.scitechinc.ca

1.4 Emergency telephone number

CANUTEC (613) 996-6666

SECTION 2: Hazards identification

2.1 Classification of the substance of mixture

WHMIS 2015 - GHS Classification

Skin corrosion	1C
Serious eye damage/ Irritation	1

2.2 Label elements



WARNING

Hazards: H314 Causes severe skin burns and eye damage.

Precautions: P102 Keep out of reach of children.
P103 Read label before use.
P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.

P280 Use personal protective equipment as required.

2.3 Other Hazards

SECTION 3: Composition/Information on ingredients

Component	CAS#	Concentration	LD ₅₀ (rat, oral)
Acetic acid	64-19-7	20%	3310 mg/kg

SECTION 4: First-aid measures

Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately contact a doctor/physician.
Skin Contact:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Inhalation:	Allow victim to breathe fresh air. Allow the victim to rest. Seek medical attention if irritation persists. Get medical advice/attention.
Ingestion:	Rinse mouth. Do not induce vomiting. If conscious, give large amounts of water to drink. Seek medical attention if symptoms persist. Immediately contact a doctor/physician.

SECTION 5: Fire fighting measures

Extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Chemical hazards:	Emits corrosive vapours under fire conditions.
Protective equipment for fire fighters:	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

SECTION 6: Accidental release measures

Wear chemical safety glasses or goggles. Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements. Methods and materials for containment and cleaning up
Absorb spill with non-combustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7: Handling and storage

Precautions for handling:	Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.
Condition for safe storage:	Store in cool, dry and well-ventilated areas, with containers tightly closed. Keep out of direct sunlight and away from heat sources. Do not use any non-ferrous metals such as copper, brass, bronze, aluminum, tin, zinc or galvanized metals. Protect containers from physical damage. Closed storage tanks should be provided with safety relief valves and vacuum breakers as necessary.

SECTION 8: Exposure controls/personal protection

Exposure Limits: 10 ppm 25 mg/m³ PEL OSHA
10 ppm 25 mg/m³ TLV ACGIH
15 ppm 37 mg/m³ STEL ACGIH
10 ppm 25 mg/m³ REL NIOSH
15 ppm 37 mg/m³ STEL NIOSH

Appropriate engineering controls: Local exhaust should be sufficient to keep levels below applicable exposure standards.

Personal protective equipment: Wear chemical safety glasses or goggles. Inhalation Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator. Skin Wear nitrile or rubber gloves.

SECTION 9: Physical and chemical properties

Appearance: Clear colourless liquid

Odour: Vinagar

Odour threshold: n.av

pH: <1

Melting point: n.av.

Initial boiling point and boiling range: n.av.

Flash point n.ap

Evapouration rate: n.av.

Flammability: Non-flammable

Upper/lower flammability limits: n.av.

Vapour pressure: n.av.

Vapour density: n.av.

Relative density: 1.03 g/mL

Solubility: Soluble in water

Partition coefficient: n-octanol/water: n.av.

Auto-ignition temperature: n.ap.

Decomposition temperature: n.av.

Viscosity: n.av

SECTION 10: Stability and reactivity

Reactivity: Non reactive under normal conditions.

Chemical stability: Stable under normal ambient conditions of temperature and pressure. Will react with alkaline materials to release heat and carbon dioxide.

Hazardous reactions: Ammonium hydroxide will react exothermically with acids. Ammonia vapors are released when heated.

Conditions to avoid:	Avoid contact with incompatibles.
Incompatible materials:	Oxidizing agents, soluble carbonates and phosphates, hydroxides, metals, peroxides, permanganates, e.g. potassium permanganate, amines, alcohols.
Hazardous decomposition products:	Oxides of carbon

SECTION 11: Toxicological information

Routes of exposure:	Inhalation (vapors), skin and/or eye contact (vapors, liquid), ingestion (liquid).
Symptoms of exposure:	Skin: Reddening, itching, inflammation. Eyes: Serious damage Respiratory: Sneezing, coughing, edema of larynx. Ingestion: Pain of the mouth, throat, nausea, abdominal spasms, vomiting, diarrhea.
Acute toxicity estimate:	>5000 mg/kg rat (oral)

SECTION 12: Ecological information

Ecotoxicity:	Data not available
Persistence and degradability:	Data not available
Bioaccumulative potential:	Low potential for bioaccumulation
Mobility in soil:	Data not available
Other adverse effects:	No other adverse environmental effects

SECTION 13: Disposal considerations

Product should be disposed of in accordance to provincial or state and local government requirements prior to disposal. If the product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner in accordance to local regulations.

SECTION 14: Transport information

Canadian TDG: UN2790 Acetic Acid Solution. Class 8, PG III

SECTION 15: Regulatory information

DSL: All components are listed on the Canadian DSL

SECTION 16: Other information

Prepared by: Sci-Tech Engineered Chemicals Research and Development Department

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