

# Chem Alert Report

Manufacturer's Material Safety Data Sheet

Product Name **ACID ALCOHOL 1 - 5% [FRONINE LAB SUPPLIES].****Ingredient**HYDROCHLORIC ACID  
ETHANOL**Conc.**1 - 5%  
>60%**CAS No.**7647-01-0  
64-17-5**Shipping****CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA**

FLAMMABLE LIQUID, CORROSIVE, N.O.S.

**Synonyms**

3% ACID ALCOHOL, ACID (HCL) ALCOHOL 1 - 5%, ACID ALCOHOL 1 - 5% [FRONINE LAB SUPPLIES], ACID ALCOHOL 3%.

**Appearance**

CLEAR LIQUID

**Odour**

ALCOHOL ODOUR

**Use(s)**

LABORATORY REAGENT.

**Supplier**

FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26

**Stock No.**

436.

**Poison Sched**

5

**Hazchem 3WE****UN No.** 2924**D.G Class** 3**Pkg Group** II

EPG 3A4

**Sub/Tert Risk** 8**HEALTH HAZARDS****Health Hazard Summary**

Corrosive - toxic. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid all eye or skin contact and vapour inhalation. Small container size and application method considerably reduces exposure potential.

**Eye**

Corrosive - severe irritant. Exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage with prolonged contact.

**Inhalation**

Corrosive. Over exposure may result in mucous membrane irritation of nose and throat, coughing and bronchitis. At high levels; ulceration of the respiratory tract, lung damage, chemical pneumonitis and pulmonary oedema.

**Skin**

Corrosive - severe irritant. Contact may result in rash, dermatitis, blistering and severe burns. Effects (eg. burning sensation) may be delayed.

**Ingestion**

Corrosive. Ingestion may result in ulceration and burns to the mouth and throat, nausea, vomiting, abdominal pain, diarrhoea and possible liver damage. Pulmonary oedema may result from aspiration into the lungs in the event of vomiting.

**PRECAUTIONS****Flammability**

Highly flammable liquid. May evolve toxic hydrogen chloride, carbon oxides and hydrocarbons when heated to decomposition. Flammable hydrogen gas may be evolved in contact with metals.

**Reactivity**

Incompatible with oxidising agents (eg. hypochlorites, peroxides), alkalis (eg. sodium hydroxide) and heat sources.

**Ventilation**

Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.

**PERSONAL PROTECTIVE EQUIPMENT****PPE**

Wear coveralls, splash-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear a PVC apron and PVC boots. Where an inhalation risk exists, wear a Type AB (Organic vapour, Inorganic and Acid gas) Respirator or an Air-line respirator.

Colour  
Rating  
**AMBER**

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## FIRST AID

- Eye** Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.
- Inhalation** Leave exposure area immediately. If assisting a victim avoid becoming a casualty, wear a Type AB (Organic vapour, Inorganic and acid gas) respirator or Air-line respirator (in poorly ventilated areas). If victim is not breathing apply artificial respiration. Give oxygen if available.
- Skin** Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

## SAFE HANDLING

- Storage** Store in cool, dry, well ventilated area, removed from direct sunlight, oxidising agents (eg. hypochlorites), alkalis (eg. hydroxides), heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check regularly for leaks or spills. Large storage areas should have appropriate ventilation systems.
- Waste Disposal** Small quantities - neutralise by SLOW addition of a saturated sodium bicarbonate solution or a solution of a 50-50 mixture of sodium carbonate and sodium hydroxide. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well ventilated area or using a fume cupboard. Do not add water to unreacted acid. Large quantities may be incinerated at approved facility.
- Transport** Class 3 Flammable liquid. Do not transport with chemicals of class; 1 (Explosives), 2.1/ 2.3 (Flammable/ Toxic gases), 4.2 (Spontaneously combustibles), 5.1 (Oxidising agents), 5.2 (Organic peroxides), 6 (Toxics), 7 (Radioactives) and foodstuffs.

## EMERGENCY

- Spillage** If spilt (bulk), contact emergency services where appropriate. Wear splash-proof goggles, PVC/rubber gloves, a Type AB (Organic vapour, Inorganic and acid gas) respirator, coveralls and rubber boots. Ventilate and clear area of all unprotected personnel. Eliminate all ignition sources. Cover and absorb spill with sand or similar, collect and place in sealable containers for disposal.
- Environment** SOIL: If released to soil, this product will dissolve the carbonate based soil materials due to its acidic nature. WATER: A significant amount will reach the water table where dilution and dispersion help to reduce the acid concentration. Aquatic life may be threatened if the pH falls below 5.
- Fire and Explosion** Highly flammable-explosive vapour. Evacuate area and contact emergency services. Toxic gases (hydrocarbons, carbon oxides, chlorides, hydrogen chloride) may be evolved. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Water fog or foam. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Flammability:</b> FLAMMABLE	<b>Flash Point:</b> 13 C (Ethanol)
<b>Boiling Point:</b> 78 C (Ethanol)	<b>Melting Point:</b> NOT AVAILABLE
<b>Exposure Standard:</b> 5 ppm (Hydrochloric acid)	<b>Evaporation Rate:</b> NOT AVAILABLE
<b>pH:</b> < 1	<b>% Volatiles:</b> 100 %
<b>Specific Gravity:</b> NOT AVAILABLE	<b>Solubility (water):</b> SOLUBLE
<b>Vapour Pressure:</b> NOT AVAILABLE	<b>Upper Explosion Limit:</b> 19.0% (Ethanol)
<b>Lower Explosion Limit:</b> 3.3 % (Ethanol)	

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