

# Chem Alert Report

Product Name **HISTO-ETHANOL 100% [FRONINE LAB SUPPLIES].**

Ingredient	Conc.	CAS No.
ETHANOL	>96%	64-17-5
WATER	<6.2%	7732-18-5

<b>Shipping</b>	<b>CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA</b> ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)		
<b>Synonyms</b>	ABSOLUTE ALCOHOL, ETHANOL 95% [FRONINE LAB SUPPLIES], ETHANOL SOLUTIONS, ETHYL ALCOHOL, HISTO-ETHANOL 100% [FRONINE LAB SUPPLIES], SVI, SVR, ETHANOL (CSR).		
<b>Appearance</b>	CLEAR COLOURLESS LIQUID		
<b>Odour</b>	CHARACTERISTIC ALCOHOL ODOUR		
<b>Use(s)</b>	SOLVENT, LABORATORY REAGENT.		
<b>Supplier</b>	FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26		
<b>Stock No.</b>	38, 497.		
<b>Poison Sched</b>	None Allocated	<b>Hazchem</b> 2[Y]E	<b>UN No.</b> 1170
<b>Pkg Group</b>	II	<b>EPG</b> 3A1	<b>D.G Class</b> 3 <b>Sub/Tert Risk</b> None Allocated

## HEALTH HAZARDS

<b>Health Hazard Summary</b>	Low to moderate toxicity - irritant. This product has the potential to cause adverse health effects with chronic over exposure. Use safe work practices to avoid eye or skin contact and over exposure via inhalation. Chronic ingestion may result in cirrhosis of the liver. Over exposure may cause central nervous system depression.
<b>Eye</b>	Irritant. Exposure may result in lacrimation, irritation, pain and redness.
<b>Inhalation</b>	Irritant. Inhalation may cause irritation to the respiratory system, nose and throat irritation, coughing, and headache. Over exposure may result in nausea, dizziness and drowsiness.
<b>Skin</b>	Irritant - toxic. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.
<b>Ingestion</b>	Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain, diarrhoea, headache, dizziness and drowsiness with large doses. Liver damage may occur with high level or chronic ingestion.

## PRECAUTIONS

<b>Flammability</b>	Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.
<b>Reactivity</b>	Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. sulfuric acid), strong alkalis (eg. hydroxides), heat and ignition sources.
<b>Ventilation</b>	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended.

## PERSONAL PROTECTIVE EQUIPMENT

<b>PPE</b>	Wear splash-proof goggles and nitrile or neoprene gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A (Organic vapour) Respirator. At high vapour levels, wear Self Contained Breathing Apparatus (SCBA) or an Air-line respirator.
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Colour  
Rating  
**AMBER**

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## FIRST AID

- Eye** Flush gently with running water. Seek medical attention if irritation develops.
- Inhalation** If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
- Skin** Gently flush affected areas with water. Seek medical attention if irritation develops.
- 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 oxidising agents, acids, alkalis, direct sunlight, heat or ignition 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 fire protection.
- Waste Disposal** For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information if larger amounts are involved. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
- 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, nitrile gloves, a Type A (Organic vapour) respirator and coveralls. Ventilate and clear area of all unprotected personnel. Eliminate potential ignition sources. Absorb spill with sand or similar, collect and place in sealable containers for disposal.
- Environment** If spilled on soil, ethanol will either evaporate or leach into the ground due to the relatively high vapour pressure and low adsorption in soil. It will biodegrade, probably to acetic acid and formaldehyde. Ethanol will volatilise from water and biodegrade, and is not expected to bioconcentrate. It will photodegrade in air with a half-life ranging from hours (polluted air) to days (clean air).
- Fire and Explosion** Highly flammable - explosive vapour. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) 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> HIGHLY FLAMMABLE	<b>Flash Point:</b> 13 C (cc)
<b>Boiling Point:</b> 78 C	<b>Melting Point:</b> - 117 C
<b>Exposure Standard:</b> 1000 ppm Ethanol	<b>Evaporation Rate:</b> 2.53 (Butyl acetate = 1)
<b>pH:</b> NOT AVAILABLE	<b>% Volatiles:</b> 100 %
<b>Specific Gravity:</b> 0.78 - 0.81	<b>Solubility (water):</b> SOLUBLE
<b>Vapour Pressure:</b> 44 mm Hg @ 20 C	<b>Upper Explosion Limit:</b> 19.0 %
<b>Lower Explosion Limit:</b> 3.5 %	<b>Autoignition Temperature:</b> 392 C
<b>Vapour Density:</b> 1.59 (Air = 1)	

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