



HEALTH & SAFETY INFORMATION

55-175 Iso-propyl Alcohol (Propan 2-01)

PHYSICAL PROPERTIES

Description:	Colourless liquid, characteristic odour
Melting point	- 89°C
Boiling point	+82°C
Specific gravity	0.78
Solubility in water	Miscible in all proportions
Vapour pressure	33 mmHg @ 20°C
Vapour density	2.07 (air = 1)

FIRE HAZARD DATA

Highly flammable	
Vapour/air mixture explosive	
Flash point	12°C (closed cup)
Explosive limits (%):	lower 2.3 upper 12
Auto-ignition temperature	425°C
Firefighting measures	Water spray, dry powder or vaporising liquids.

TOXICITY DATA

LD50	5045 mg/kg oral, rat
Carcinogenicity	No evidence of carcinogenic properties
Mutagenicity/Teratogenicity	No evidence of mutagenic or teratogenic effects.
Exposure limits OES	980mm/m ³ skin (long-term, 8 hour TWA).

HEALTH HAZARD

Inhalation of high concentrations of vapour or ingestion of liquid may result in headache, dizziness, mental depression, nausea, vomiting, narcosis, anaesthesia and coma. Fatal dose about 100ml.

Can cause severe damage if splashed in eyes.

FIRST AID

Eyes:	Irrigate thoroughly with water for at least 10 minutes. If discomfort persists obtain medical attention.
Lungs:	Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
Skin:	Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.
Mouth:	Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

REACTIVE HAZARDS

Stability:	Stable
Reaction with water:	None
Other known hazards:	Can react vigorously with oxidising materials.

Can ignite in contact with potassium tert-butoxide. Can react exothermically with aluminium.
Can form explosive peroxides on prolonged storage.

AVOID CONTACT WITH

Water	(No)
Acids	(No)
Bases	(No)
Oxidisers	(Yes)
Combustibles	(No)



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SPILLAGE DISPOSAL

Precautions:

Shut off all sources of ignition.

Inform others to keep at a safe distance.

Wear appropriate protective clothing.

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on an inert absorbent, transfer to container and arrange removal by disposal company.

Ventilate area to dispel residual vapour.

For LARGE SPILLAGES liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

If material has entered surface drains it may be necessary to inform local authorities, including fire services.

PROTECTIVE MEASURES

As appropriate to quantity handled.

Respirator: Self-contained breathing apparatus

Ventilation: Fume-cupboard, flameproof

Gloves: Nitrile

Eye protection: Goggles or face shield

Other measures: Plastic apron, sleeves, boots if handling large quantities.

STORAGE AND HANDLING

Special requirements:

As required by the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972.

In accordance with HSE guidance note CS17.