

MATERIAL SAFETY DATA SHEET

Issued Date:	October 2004
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Classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company Name	Chemwell Products Pty Ltd (ABN 29 060 847 538)
Address	3 Clive Street, Springvale Vic 3171
Phone/Fax	Ph: +61 3 9558 5678 Fax: +61 3 9562 4360
Emergency Telephone	13 11 26 Poison Information Centre (National), 000 Police, Fire, Ambulance
Email	rkiwerc1@iinet.net.au

IDENTIFICATION

Product Code	12-03-01
Product Name	Methylated Spirit IMS95
Other Name	Denatured Alcohol, Ethyl Alcohol
Shipping Name	
UN Number	1170
DG Class	3
Packaging Group	II
Hazchem Code	2[Y] E
Poisons Schedule	Not scheduled
Product Use	General Industrial Solvent

Physical Data

Appearance	Clear colourless liquid, characteristics odour, burning taste
Boiling Point (°C)	78°C
Melting Point (°C)	-117°C
Vapour Pressure	44mmHg (1 atm)
Specific Gravity (H₂O=1)	0.79-0.80
Flashpoint	13°C (Abel closed cup)
Flammable Limit LEL	% by volume (20°C) upper: 19.0%
	% by volume (20°C) lower: 3.5%

Other Properties

Auto-ignition	392°C
Temperature (°C)	
Vapour Density	1.59
Solubility	Complete
Evaporation Rate	253 (n-Butyl Acetate = 100)
Odour Threshold	Characteristic alcohol odour
Per cent Volatiles	100%

Ingredients

Ingredients	Name	CAS	Proportion %
	Ethyl Alcohol (ethanol)	64-17-5	>95

HEALTH HAZARD INFORMATION

Health Effects

Acute Swallowed	Unlikely under normal occupational exposures, but swallowing ethanol may cause harmful nervous system effects. Effects may include excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, tremors, convulsions, loss of consciousness, coma, respiratory arrest and death. Severe acute intoxication causes hypoglycaemia, hypothermia and extensor rigidity. Other effects may include decreased blood pressure, vomiting blood and blood changes. Aspiration into the lungs may cause pneumonitis.
Acute – Eye	Vapours may irritate the eyes. Liquid and mists may severely irritate or damage the eyes.
Acute – Skin	Moderately irritating to the skin. Brief contact may cause redness. Repeated or prolonged contact may lead to dermatitis with redness, itching, swelling and possible secondary infection. A small proportion of people exposed to repeated skin contact may develop an allergic skin reaction.
Acute – Inhaled	Moderately irritating to the respiratory tract and mucous membranes. Inhalation of the vapour may result in headaches, nausea and vomiting. High concentrations may cause central nervous system symptoms similar to 'swallowed' above.
Chronic	Chronic intoxication by swallowing or repeated inhalation, may cause degenerative changes in the liver, kidneys, hair, gastrointestinal tract and heart muscle. Special toxic effects: Persons with pre-existing liver impairment, skin and respiratory disorders may be at increased risk from exposure. Ethanol may also cause adverse reproductive effects. Concurrent absorption of ethanol and some drugs may cause adverse health effects.

First Aid

Swallowed	Give plenty of water to drink; induce vomiting in conscious person by giving syrup of Ipecac. Seek medical advice if necessary.
Eye	Irrigate with water for 15 minutes. Seek medical attention promptly.
Skin	Wash with water. Remove contaminated clothing.
Inhaled (MIST)	Remove to fresh air, rest patient and seek medical attention. Give artificial respiration if breathing stops.
First Aid Facilities	

Advice to Doctor

Advice to Doctor	Treat symptomatically. Gastric lavage may be indicated if ingested. Do not wait for symptoms to develop. General measures should be taken to control acidosis and maintain urine output.
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Other Health Hazard Information

PRECAUTION FOR USE

Exposure Limits	The exposure Standards recommended by Worksafe Australia are: Ethyl alcohol: TWA 1000ppm (1880 mg/m ³)
Engineering Control	Local exhaust and/or mechanical (general) exhaust is recommended, provided these are fitted with flame and explosion proof electrical fittings.

Personal Protection

Protective Equipment	Avoid skin contact by the use of approved gloves and aprons – PVC or Neoprene (AS 2161)
Eye Protection	Avoid eye contact by wearing splash resistant monogoggles or mist face shield (AS/NZS 1336) whenever exposed to vapour or mist or if there is a risk of splashing liquid in the eyes. Safety showers with eyewash should be provided in all areas where product is handled.
Respiratory Protection	None should be needed under normal circumstances. In high vapour concentrations such as empty vessels or confined spaces, use air supplied hood, or if ethanol concentration likely to exceed 500ppm, wear an approved organic vapour respirator (AS/NZS 1715 and 1716).

Flammability

Fire Hazards	<p>Flammable liquid. All electrical equipment, including lighting, used in proximity to storage and all electrical process equipment used in any process involving ethanol should be selected and installed in accordance with local wiring rules and the following Australian Standards:</p> <p>AS 1020 The control of undesirable static electricity</p> <p>AS 1076 Code of practice for selection, installation and maintenance of electrical apparatus and associated equipment for use in the explosive atmospheres (other than mining applications) – Parts 1 to 13</p> <p>AS 2380 Electric equipment for explosive atmospheres – Explosion – Protection Techniques</p> <p>AS 3000 Electrical installations – Buildings, structures and premises (known as the SAA Wiring Rules)</p> <p>The use of compressed air for filling, discharging, mixing or handling is prohibited due to vapour hazard.</p>
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SAFE HANDLING INFORMATION

Storage and Transport

Storage & Transport	<p>Store in tightly closed containers in cool, dry, isolated well, ventilated areas away from heat, sources of ignition and incompatibles.</p> <p>Do not eat, drink or smoke in areas of use and storage.</p> <p>Observe State Regulations concerning the storage and handling of Dangerous Goods.</p> <p>Store with all precautions required for handling flammable liquids.</p> <p>The requirements of Australian Standards AS 1940 – “The Storage and Handling of Flammable and Combustible Liquids” should be observed.</p>
Shipping Name	

Spills and Disposals

Spills & Disposal	<p>Clean up personnel should wear full protective clothing including respiratory protection if risk of inhalation of vapours. Eliminate all sources of ignition. Stop and contain the spill for salvage or absorb in inert absorbent material. Wash with copious volumes of water; ethanol mixes completely with water. Ventilate area well and ensure adequate personal protection as above. Incinerate under controlled conditions if permitted by local authorities; otherwise disposal must be in accordance with local waste authority requirements.</p>
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Fire/Explosion Hazard

Fire/Explosion Hazard Extinguishing media:
Use water, dry chemicals, carbon dioxide or alcohol stable foam.
Special fire fighting procedures:
Use water to cool exposed containers.
Spills and leaks may be washed with copious volumes of water, for or spray.
Fire Fighters must wear self-contained breathing apparatus with full face-mask and protective clothing.
Unusual Fire and Explosion Hazards:
Burns with a colourless flame. The vapour is heavier than air and may travel along the ground; distant ignition and flash back are possible. Run off to sewers and drains may cause explosions. Isolate for at least 800 metres in all directions if tanks or tankers are involved. Burning can produce carbon dioxide and/or carbon monoxide.
The use of compressed air for filling, discharging, mixing or handling is prohibited due to the vapour hazard.
All vessels must be earthed to avoid generation of static charges when agitating or transferring solvents.
Containers previously holding ethanol products must be degassed before entry or subjected to sources of ignition, refer AS 1940.

OTHER INFORMATION

Information on Ecological Effects

RISK & SAFETY PHRASES S24/25 Avoid contact with skin and eyes
S37/39 Wear suitable gloves and wear eye / face protection

Packaging & Labelling Defined as a 'Dangerous Good' by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Hazard Category Flammable

CONTACT POINT

TELEPHONE	ORGANISATION	LOCATION	ASK FOR
+61 3 9558 5678 13 11 26 000	Chemwell Products Pty Ltd Poison Information Centre Fire, Police, Ambulance	Springvale, VIC National National	Technical Officer

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

End of MSDS
