

Manufacturers and Distributors of Top Quality Paints and Solvents

P.O. BOX 1633
RANDBURG
2125
SOUTH AFRICA

PHONE: 027 11 864-1301/1302
027 11 864-1036/1393
FAX: 027 11 864-1390
WEB SITE: www.bandr.co.za
E-MAIL : bandr@icon.co.za

Director: B. J. Rodd

**METHANOL
LOCAL SALES SPECIFICATION****DESCRIPTION**

Methyl Alcohol, CH₃OH

SPECIFICATION

PROPERTIES	UNITS	LIMITS	TEST METHOD
Methanol	Mass %	99,0 min (dry basis)	GC
Appearance	-	Clear, colourless and free from suspended matter.	VISUAL
Colour	Hazen	15 max	ASTM D1209
Density @ 20 °C	Kg/l	0,791 – 0,793	ASTM D1298
Distillation Range @ 101,3kPa	-	Not less than 95% (v/v) shall distil between 64,5°C and 65,5°C	ASTM D1078
Residue on evaporation	Mg/kg	10 max	ASTM D1353
Water miscibility	Visual	No opalescence when mixed 5 parts Methanol: 95 parts distilled water	ASTM D1722
Acidity as Formic Acid	Mg/kg	20 max	ASTM D1613
Alkalinity	-	Neutral to phenolphthalein	
Aldehydes and Ketones	Mass %	0,04 max	GC
Sulphur and its compounds as S	Mg/kg	10 max	SCI 1.211/92
Water	Mass %	0,15 max	ASTM D1364

Uses: A solvent in the following applications: adhesives, paint strippers, lacquers, lacquer thinners, industrial detergents, Also used as a raw material for the manufacture of formaldehyde.

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Methanol cont/...

Product Name	Methanol
Commercial Product Name	Methanol Methyl Alcohol
Synonyms	Methyl Alcohol, Methanol Wood Alcohol

HEALTH HAZARD INFORMATION		
Causes	Symptoms	Emergency and first aid procedures
Inhalation (Breathing)	Coughing, headache, nausea, drunkenness, blurred vision. Massive exposures can cause unconsciousness, blindness and death.	Move victim to fresh air. If breathing has stopped, administer artificial respiration. Obtain medical attention immediately.
Skin Contact / Absorption	May be absorbed through skin in toxic amounts.	As quickly as possible, flush affected area with water for 20 minutes.
Eye Contact	Vapour can irritate the eyes.	Immediately flush the contaminated eye(s) with water. Obtain medical attention.
Ingestion (Swallow)	Initial symptoms may resemble ethanol intoxication; may be accompanied by severe upper abdominal pain, visual disturbance often pertinent to blindness, prolonged coma, death.	Do not induce vomiting. Have victim drink 240 to 300ml water. Obtain medical attention immediately.
Acute over-exposure	Usually an oral dose of 25-100ml is fatal. After latent period of 10 – 15 hours damage to central nervous system causes permanent blindness or death.	
Chronic over-exposure	Chronic over-exposure to 1200-8300 ppm can lead to impaired vision.	

Methanol continued/...

HAZARDOUS COMPONENTS			REACTIVITY DATA	
Components	%	Hazard Data	Conditions contributing to instability	Strong oxidizing agents
Methanol	99	TLV = 200 ppm	Incompatibility	None
			Hazardous decomposition products	None
			Conditions contributing to hazardous polymerization	None
SPECIAL PROTECTION DATA			SPILL OR LEAK PROCEDURES	
Ventilation requirements	Area must be well ventilated.		Steps to be taken if material is released or spilled:	
Respiratory (in detail)	Air supply respirator for high concentrations		Neutralising chemicals	Not pertinent
Eyes	Safety goggles.		Waste disposal method	Mop up with plenty of water. Prevent material from entering sewers or confined spaces. If necessary, contain spill by diking with sand or other suitable method. Ventilate area well to evaporate remaining liquid and dispel vapour.
Gloves	Rubber gloves.			
FIRE AND EXPLOSION DATA			PHYSICAL DATA	
Flash Point (Test method)	12°C (Closed cup)		Boiling Point (at 760mm Hg)	65°C
Auto-ignition temperature	385°C		Melting Point (pour pt)	-97.8°C
Flammable limits in air % by Vol	Lower: 7.3% Upper: 36%		Density (temperature)	0.792 kg/litre
Extinguishing Media	Alcohol foam, CO ₂ , dry chemical.		Vapour pressure (at 21.2°C)	100mm Hg
Special fire fighting procedures	None.		Vapour density (Air=1)	1.1
Unusual fire and explosion hazards	Dangerous, when exposed to heat or flame.		Solubility in H₂O (% by mass)	Highly soluble in water
			Evaporation rate (n-Butyl Acetate = 1)	2.1
			Appearance and odour	Clear, colourless, mobile liquid. Slight alcoholic odour.

Manufacturers note:

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