

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

**FOUNDRY SOLVENT
 LOCAL SALES SPECIFICATION
 AND SAFETY DATA SHEET**

<u>DESCRIPTION</u>			
Ethanol denatured with 6% isopropanol and further denatured according to Formula 4 prescribed in the Customs & Excise Act. To 95 volumes of the denatured ethanol are added 3,5 volumes of butanol and 1,5 volumes Petrol. To each 100 litres of the above blend is added 0,35 grams fluoro green, 1 gram Bitrex and 0,375 litres mineral naphtha.			
<u>SPECIFICATION</u>			
Properties	Units	Limits	Test method
Total ethanol content	Vol %	85 min	GC
<u>PACKAGING</u>			
FOUNDRY SOLVENT is available in 200 litre steel drums			

<u>PHYSICAL CHARACTERISTICS</u>	<u>TYPICAL</u>
Boiling Point (at 760mm HG)	78 - 112 °C
Melting Point	- 42 °C
Density at 20 °C	0.79 – 0.825
Vapour pressure at 20 °C	40 – 44 mm HG
Vapour Density	1.54 – 1.60
Solubility in H ₂ O	Highly Soluble
Evaporation Rate, relative (n-BuAc = 1)	1.8 – 2.4
Residue on evaporation	1 mg/100ml
Flash Point (Closed cup) at 101,3 kPa	0 - 20 °C Closed Cup
Auto Ignition	380 - 420 °C
Water Content – mass %	0.4 - 0.6 Max
Methyl Alcohol – Ethyl Alcohol	87% Min
Distillation Range	°C
Initial Boiling Point	75
50%	78
Final Boiling Point	118

Foundry solvent cont/...

Product Name	FOUNDRY SPIRITS
Commercial Product Name	FOUNDRY SPIRITS
Synonyms	Mineralised Methylated spirits, Foundry solvent

HEALTH HAZARD INFORMATION		
Causes	Symptoms	Emergency and first aid procedures
Inhalation (Breathing)	Vapour is irritating to nose and throat..	If breathing is affected, remove victim to fresh air, call physician, administer oxygen.
Skin Contact / Absorption	Not harmful.	Wash with soap and water.
Eye Contact	Vapour may irritate the eyes.	Flush eyes thoroughly with water.
Ingestion (Swallow)	Headache and drowsiness may occur. Can cause intoxication. It is a central nervous system depressant.	If patient is unconscious, keep warm, obtain immediate medical attention.
Acute over-exposure	Large doses can cause alcohol poisoning. 400ml, taken within one hour can be deadly.	
Chronic over-exposure	Repeated ingestions can lead to alcoholism.	

HAZARDOUS COMPONENTS			REACTIVITY DATA	
Components	%	Hazard Data	Conditions contributing to instability	Can react vigorously with acetyl chloride, BrF3, Ca (OC1)2, ClO3, CrO3, HNO3, H2O2
Ethanol	88	TLV = 1000 ppm	Incompatibility	None
Iso-Propanol	7	TLV = 200 ppm	Hazardous decomposition products	None
Butanol	4	TLV = 100 ppm	Conditions contributing to hazardous polymerization	Not pertinent

Foundry solvent cont / ...

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)	Not pertinent	Neutralising chemicals	Not pertinent
Eyes	Safety goggles.	Waste disposal method	Mop up with plenty of water and run to waste, diluting greatly with running water. Ventilate area well to evaporate remaining liquid and dispel vapour.
Gloves	Rubber gloves.		
FIRE AND EXPLOSION DATA		PHYSICAL DATA	
Flash Point (Test Method)	13°C (Closed cup)	Boiling Point (at 760mm Hg)	78°C
Auto-ignition temperature	423°C	Melting Point (pour pt)	-114°C
Flammable limits in air % by Vol	Lower: 3,3% Upper: 19%	Density (at 20°C)	0,789 kg/litre
Extinguishing media	Alcohol foam, CO2, dry chemical.	Vapour pressure (at 19°C)	40mm Hg
Special fire fighting Procedures	None	Vapour density (Air = 1)	1,59
Unusual fire and explosion hazards	Dangerous when exposed to heat or flame.	Solubility in H2O	Highly soluble in water
		Evaporation rate (n-Butyl Acetate = 1)	1,28
		Appearance and odour	Colour, violet, fragrant liquid. Burning and bitter after taste.

Manufacturers Note:

Although the information contained herein is presented in good faith and is to the best of B&R Products knowledge true and accurate, it is made for informational purposes only and without any warranty whatsoever. Due to the special nature of the product and its applications B&R Products does not accept any responsibility or liability whatsoever which may result from the use of this information.

The information contained herein is not to be construed as a licence to operate under, or a recommendation to infringe, any existing patents, nor should it be confused with any Governmental or international safety codes.