

REVISION DATE: 11-07-2004



**SAFETY DATA SHEET**  
**Mineralised Methylated Spirit 94%**

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**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**


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PRODUCT NAME Mineralised Methylated Spirit 94%  
 PRODUCT NO. MMSP  
 SUPPLIER J.V. Barrett & Co. Ltd  
 Barrettine Works, St Ivel Way  
 Warrley  
 Bristol BS30 8TY  
 0117 9600060  
 0117 935 2437

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**2 COMPOSITION/INFORMATION ON INGREDIENTS**


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Name	EC No.	CAS-No.	Content	Classification
ETHANOL	200-578-6	64-17-5	60-100%	F;R11
METHANOL	200-659-6	67-56-1	1-5%	F;R11 T;R23/24/25,R39/23/24/25
PYRIDINE	203-809-9	110-86-1	< 1%	F;R11 Xn;R20/21/22

The Full Text for all R-Phrases are Displayed in Section 16

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**3 HAZARDS IDENTIFICATION**


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Highly flammable. Harmful by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

CLASSIFICATION Xn;R20/21/22,R68/20/21/22. F;R11.

**HUMAN HEALTH**

Accidental ingestion may cause nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness.

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**4 FIRST-AID MEASURES**


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**INHALATION**

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION**

Immediately rinse mouth and provide fresh air. DO NOT induce vomiting. Get medical attention immediately. If there is difficulty breathing, give oxygen. If breathing elops or shows signs of failing, apply artificial respiration.

**SKIN CONTACT**

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

**EYE CONTACT**

Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

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**5 FIRE-FIGHTING MEASURES**


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**EXTINGUISHING MEDIA**

Use: Water spray, fog or mist. Alcohol resistant foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO2).

**SPECIAL FIRE FIGHTING PROCEDURES**

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Keep run-off water out of sewers and water sources. Dike for water control. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire.

REVISION DATE: 11-07-2004

## Mineralised Methylated Spirit 94%

### UNUSUAL FIRE & EXPLOSION HAZARDS

Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back.

### SPECIFIC HAZARDS

Fire creates: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

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## 6 ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS

Wear suitable protective clothing as specified under section 8 of this safety data sheet - Exposure Controls and Personal Protection.

### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Stop leak if possible without risk. **DO NOT TOUCH SPILLED MATERIAL!** Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved. Absorb in vermiculite, dry sand or earth and place into containers.

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## 7 HANDLING AND STORAGE

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### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Ground transfer equipment and containers to prevent any possibility of static discharge.

### STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place.

### STORAGE CLASS

Flammable liquid storage.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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Name	Std	LT - ppm	LT - mg/m <sup>3</sup>	ST - ppm	ST - mg/m <sup>3</sup>
METHANOL	OES	200 ppm(Sk)	266 mg/m <sup>3</sup> (Sk)	250 ppm(Sk)	333 mg/m <sup>3</sup> (Sk)
ETHANOL	OES	1000 ppm	1920 mg/m <sup>3</sup>		
PYRIDINE	OES	5 ppm	16 mg/m <sup>3</sup>	10 ppm	33 mg/m <sup>3</sup>

### PROTECTIVE EQUIPMENT



### PROCESS CONDITIONS

Use only in a well ventilated area.

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Explosion-proof general and local exhaust ventilation.

### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

### HAND PROTECTION

Use protective gloves made of: Nitrile. Neoprene. Polyvinyl alcohol (PVA). Viton rubber (fluor rubber).

### EYE PROTECTION

Wear splash-proof eye goggles to prevent any possibility of eye contact.

### OTHER PROTECTION

Provide eyewash, quick drench.

### HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. **DO NOT SMOKE IN WORK AREA!** Eating, smoking and water fountains prohibited in immediate work area. Wash promptly if skin becomes wet or contaminated.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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### APPEARANCE

Liquid

REVISION DATE: 11-07-2004

### Mineralised Methylated Spirit 94%

COLOUR	Purple		
ODOUR	Unpleasant.		
SOLUBILITY	Soluble in water		
BOILING POINT (°C)	78 760 mm Hg	RELATIVE DENSITY	0.81 20°C
VAPOUR PRESSURE	58.0 mbar 20°C	FLASH POINT (°C)	12 CC (Closed cup).
AUTO IGNITION TEMPERATURE (°C)	365		

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#### 10 STABILITY AND REACTIVITY

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##### STABILITY

Stable under normal temperature conditions.

##### CONDITIONS TO AVOID

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition.

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#### 11 TOXICOLOGICAL INFORMATION

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TOXIC DOSE 1 - LD 50 6.2-17.8 mg/kg (oral rat)

##### TOXICOLOGICAL INFORMATION

Fatal dose in man 300-400 ml.

##### INHALATION

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse effects such as irritation of the mucous membrane and the respiratory system and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

##### INGESTION

Harmful if swallowed. Ingestion may cause: dryness of mouth and throat. Drowsiness, dizziness, disorientation, vertigo. May cause unconsciousness, blindness and possibly death. Harmful: danger of serious damage to health by prolonged exposure if swallowed. May cause liver and/or renal damage. Myocardial Degeneration

##### SKIN CONTACT

Harmful in contact with skin. Prolonged or repeated skin contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Absorption of organic solvents through the skin can cause some of the same acute and chronic effects as inhalation.

##### EYE CONTACT

Irritating to eyes. Spray and vapour in the eyes may cause irritation and smarting.

##### HEALTH WARNINGS

CNS depressant. Myocardial degeneration. Unconsciousness, death.

##### ROUTE OF ENTRY

Ingestion. Skin absorption. Inhalation.

##### TARGET ORGANS

Eyes. Central nervous system. Kidneys. Liver. Respiratory system, lungs. Skin.

##### MEDICAL SYMPTOMS

Irritation of eyes and mucous membranes. Mild intoxication (incl. fatigue, lassitude, irritability, headache, nausea). Slurred speech.

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#### 12 ECOLOGICAL INFORMATION

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##### ECOTOXICITY

No data on possible environmental effects have been found. However ethanol and methanol are readily biodegradable.

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#### 13 DISPOSAL CONSIDERATIONS

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##### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

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#### 14 TRANSPORT INFORMATION

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REVISION DATE: 11-07-2004

### Mineralised Methylated Spirit 94%



UK ROAD CLASS	3		
PROPER SHIPPING NAME	ETHANOL SOLUTION		
14 TRANSPORT INFORMATION		UN NO. ROAD	1170
UK ROAD PACK GR.	II	ADR CLASS NO.	3
ADR CLASS	Class 3: Flammable liquids.	ADR PACK GROUP	II
HAZARD No. (ADR)	33	ADR LABEL NO.	3
HAZCHEM CODE	2(S)E	RID CLASS NO.	3
RID PACK GROUP	II	UN NO. SEA	1170
IMDG CLASS	3	IMDG PAGE NO.	3
IMDG PACK GR.	II	MARINE POLLUTANT	No.
UN NO. AIR	1170	ICAO CLASS	3
AIR PACK GR.	II		

#### 15 REGULATORY INFORMATION

##### LABELLING



Harmful



Highly Flammable

##### CONTAINS

METHANOL

##### RISK PHRASES

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

##### SAFETY PHRASES

S9	Keep container in a well-ventilated place.
S18	Keep away from sources of ignition - No smoking.
S51	Use only in well-ventilated areas.
S38/37	Wear suitable protective clothing and gloves.
S60	This material and its container must be disposed of as hazardous waste.

#### 16 OTHER INFORMATION

##### ISSUED BY

Chris Hayward

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##### RISK PHRASES IN FULL

R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R38/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.