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## MATERIAL SAFETY DATA SHEET NUMBER : 1136/02

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Issue No. 2

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### 1. IDENTIFICATION OF PRODUCT & COMPANY

Product Group & Description

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BW47 BRIWAX SPIRIT DYE

INTENDED USE

For application to wooden surfaces by brush or rag.

SUPPLIER

United Paints Ltd.  
29 Empire Road  
Belfast , Canterbury  
P.O.Box 21064 Christchurch  
Telephone : +64 3 323 7261  
Fax : +64 3 323 7261  
After Hours : +64 21 617 979  
Emergency : 0800 764 766

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### 2. COMPOSITION/INFORMATION OF INGREDIENTS

Substances presenting a Health or Environmental hazard within the meaning of The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

A mixture of dyestuffs, resins and organic solvents.

Substance Name	ENICS	CAS No	%age Range	Symbol letter	Risk Phrases (*)
ETHANOL	200-578-6	64-17-5	>50% & =<75%	F	11
METHANOL	200-659-6	67-56-1	>2.5% & =<10%	T,F	23/24/25-39 /23/24/25-11

ISOPROPANOL	200-661-7	67-63-0	>2.5% & =<10%	Xi,F,	36-11-67
4-METHYLPENTAN-2-OL	203-550-1	108-10-1	>2.5% & =<10%	Xn,Xi,F,	20-36/37-11-66
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	>2.5% & =<10%		10
(*) for full text of Risk Phrases see Section 16 'Other Information'					

3. HAZARDS IDENTIFICATION

HSNO NUMBER : 2669

HSNO Classifications : 3.1B,6.3A,6.4A,9.1B,9.3C

Classification

F - Highly Flammable    Xn - Harmful

Risk Phrases

Highly Flammable

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

'P' Phrases

Trade users, please refer to safety data sheet before use.

4. FIRST AID MEASURES

GENERAL	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
INHALATION	Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, give artificial respiration. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
EYE CONTACT	Remove contact lenses. Holding the eyelids apart, irrigate copiously with clean, fresh water for at least 10 minutes. Seek medical advice.
SKIN CONTACT	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
INGESTION	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

## 5. FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

RECOMMENDED	Alcohol Resistant Foam, Carbon dioxide, Dry Powder, Halogenated Hydrocarbons, Sand.
NOT TO BE USED	Water.

### SPECIAL INSTRUCTIONS FOR FIRE FIGHTING PERSONNEL

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with a water spray. Do not allow run off from fire fighting to enter drains or water courses.

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## 6. ACCIDENTAL RELEASE MEASURES

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or watercourses. If the product enters drains or sewers, immediately contact the local water company; in the case of contamination of streams, rivers or lakes, contact the National Rivers Authority. Clean preferably with a detergent, avoid the use of solvents.

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## 7. STORAGE & HANDLING

### Handling

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of explosive or flammable mixtures and avoid vapour concentrations higher than the occupational Exposure Limit Values. Do not use in areas where potential sources of ignition exist. Electrical equipment should be protected to the appropriate standard. Use non-sparking tools. Keep container tightly closed. Exclude sources of heat, sparks and open flame. Never use pressure to empty, container is not a pressure vessel. Always keep in containers made of the same material as the supply container. Avoid skin and eye contact. Avoid the inhalation of vapour and mist. Smoking, eating and drinking should be prohibited in storage and use areas. For Occupational Exposure Controls, see Section 8. The product may charge electrostatically. Always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. Floors should be electrically conductive.

The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Storage

Storage and use of this product is subject to the requirements of the Highly Flammable Liquids and Liquified Petroleum Gases Regulations. Up to 50lts may be kept in a workroom in a fireproof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the regulations. Observe the label precautions. Store between 5 & 25°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE's guidance note Storage of Packaged Dangerous substances should be observed when storing this product. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are not sufficient to maintain concentrations of solvent vapours and/or particulates below relevant occupational Exposure Limit Values, suitable respiratory protective equipment should be worn (see "Occupational Exposure Controls" below).

Exposure Limits

Substance Name	Occupational Exposure Limits				Notation
	8hr LTEL		15min STEL		
	ppm	mg/m3	ppm	mg/m3	
ETHANOL	1000.00	1900.00			OES
METHANOL	200.00	266.00	250.00	333.00	Sk OES
ISOPROPANOL	400.00	999.00	500.00	1250.00	OES
4-METHYLPENTAN-2-ONE	50.00	205.00	100.00	410.00	Sk OES
1-METHOXY-2-PROPANOL	100.00	360.00	300.00	1080.00	Sk OES

NOTES

LTEL = Long Term Exposure Limit - 8 hour time weighted average  
STEL = Short Term Exposure Limit - 15 minute reference period.  
Notations = Sk - risk of absorption through skin    Sen - respiratory sensitiser.  
Notations = SK - Risk of absorption through skin    SEN - Respiratory Sensitiser    Bmgv - Biological Monitoring may be appropriate (see Biological Monitoring Guidance Value in EH40 Table 3)  
OEL's are from EH40 except where marked SUP which are assigned by the supplier of the substance.

Personal Protection

General Protection

All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

Respiratory Protection

If exposure to hazardous substances identified above cannot be controlled by provision of local exhaust ventilation & good general extraction, suitable respiratory protective equipment should be worn.

Hand Protection

When skin exposure may occur, advice should be sought from glove suppliers on appropriate glove types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye Protection

Eye protection designed to protect against liquid splashes should be worn.

Skin Protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

9. PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE	LIQUID	
FLASH POINT	• 0°C & < 21°C	Method: Abel Apparatus to British Standard BS 2000 Pt.170
VISCOSITY	Method:	
SPECIFIC GRAVITY	.81 gms/cc	Method: Gravity Cup
V.O.C. CONTENT	.77 Kgs/lt	
VAPOUR DENSITY	HEAVIER than Air	
LOWER EXPLOSION LIMIT	1.2 % Vol	
SOLUBILITY IN WATER	PARTIALLY MISCIBLE	

VAPOUR PRESSURE RANGE        1.3–5.7 kPa @ 20C

INITIAL BOILING POINT        78 deg.C

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## 10. STABILITY & REACTIVITY

Stable under the recommended storage and handling conditions (see Section 7).

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced. Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction. Keep dirty rags and wipers in an enclosed container.

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## 11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. The product has been assessed following the conventional method in CHIP and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See sections 3 and 15 for details of the resulting hazard classification.

Exposure to organic solvent vapours in excess of the stated occupational exposure limit may result in adverse health effects such as irritation of the mucous membrane and 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. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the product may cause removal of natural fats from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eye may cause irritation and reversible local damage.

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## 12. ECOLOGICAL INFORMATION

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The LAPC requirements of regulations made under the Environmental Protection Act may apply to the use of this product. The product has been assessed following the conventional method in CHIP and is not classified as dangerous for the environment. See also sections 5, 6 and 13.

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13. DISPOSAL CONSIDERATIONS

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.  
Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and Environmental Protection Act.  
Using information provided in this safety data sheet, advice should be obtained from the relevant environment agency whether the Special Waste Regulations apply.

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14. TRANSPORT INFORMATION

Road/Rail	UN No.....1263 Designation...PAINT	Packing Group...2	Class.....3
Sea	Packing Grp.<=30lts.... Class..... Marine Pollutant..... Ems..... Main Risk.....  Sub Risk.....  Shipping Name.	Packing Grp.>30lts.....  UN Number..... MFAG.....	
Air	Packing Grp.<=30lts.... Class..... UN/IATA ID Number..... Main Risk.....  Sub Risk.....  Shipping Name.	Packing Grp.>30lts.....	
International Road/Rail	Packing Group..... Item Number..... Main Risk.....  Sub Risk.....  Shipping Name.	Class..... UN Number.....	

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15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with The

Chemicals (Hazard Information and Packaging for Supply) Regulations as follows.

Classification  
F - Highly Flammable  
Xn - Harmful

Contains  
METHANOL

Risk Phrases  
Highly Flammable  
Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed

Safety Phrases  
Keep locked up and out of the reach of children  
Keep container tightly closed and in a well ventilated place.  
Keep away from sources of ignition - No smoking  
Do not breathe vapour or spray  
Use only in well ventilated areas.  
Wear suitable protective clothing and gloves.  
If swallowed seek medical advice immediately and show this container or label.

'P' Phrases  
Trade users, please refer to safety data sheet before use.

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health & safety legislation.  
The provisions of the Health & Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16. OTHER INFORMATION

Text of any Risk Phrases listed in Section 2

R10	Flammable
R11	Highly Flammable
R20	Harmful by inhalation
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36	Irritating to eyes
R36/37	Irritating to eyes and respiratory system.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.



The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging) Regulations

The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:-

The Control Of Substances Hazardous to Health Regulations 1999 (SI 1999:437)

The Manual Handling Operations Regulations 1992 (SI 1992: 2793)

Storage of Flammable Liquids in Containers. HS(G)51

Storage of Packaged Dangerous Substances. HS(G)71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1988: 2839)

COSHH Essentials: easy steps to control chemicals, HS(G)193. Details of available Control Guidance Sheets, which may be relevant to the particular conditions of use, can be found in HS(G)193.

Exclusion List for Printing Inks and Related Products 1999, CEPE (from BCF tel: 01372 360 660)

SBPIM's Safety and Handling of Printing Inks and Auxiliary Materials. (from BCF tel: 01372 360 660)

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**\* \* [End of Data Sheet] \* \***