



J. McCormack



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SAFETY DATA SHEET

BLACKFRIAR® PROFESSIONAL Line-Marking Paint - WHITE

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

PRODUCT NAME	BLACKFRIAR® PROFESSIONAL Line-Marking Paint - WHITE
SUPPLIER	Blackfriar Paints Ltd Portobello Industrial Estate Birtley County Durham DH3 2RE +44(0)191 4106611 +44(0)191 4113147 blackfriar@tor-coatings.com
PRODUCT NO.	BF0580001
APPLICATION	Line-marking paint for use on various substrates both inside and out. For application by brush or line-marking machine.
CONTACT PERSON	ian.mccormack@tor-coatings.com;

2 HAZARDS IDENTIFICATION

Highly flammable.

CLASSIFICATION (1999/45) F;R11.

ENVIRONMENT

The product is not expected to be hazardous to the environment.

PHYSICAL AND CHEMICAL HAZARDS

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures.

HUMAN HEALTH

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
Calcium Carbonate		1317-65-3	10-30%	-
ETHANOL	200-578-6	64-17-5	10-30%	F;R11
PROPAN-2-OL	200-661-7	67-63-0	10-30%	F;R11 Xi;R36 R67
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	< 1%	R43 Xi;R36/38 N;R51/53
XYLENE	215-535-7	1330-20-7	< 1%	R10 Xn;R20/21 Xi;R38
METHANOL	200-659-6	67-56-1	< 1%	F;R11 T;R23/24/25,R39/23/24/25
Silicon Dioxide	238-878-4	14808-60-7	< 1%	T;R48. Xn;R20.

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

4 FIRST-AID MEASURES

GENERAL INFORMATION

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious. Get medical attention if any discomfort continues.

INHALATION

Place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

BLACKFRIAR® PROFESSIONAL Line-Marking Paint - WHITE**SKIN CONTACT**

Use appropriate hand lotion to prevent defatting and cracking of skin. Immediately remove contaminated clothing. 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. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

5 FIRE-FIGHTING MEASURES**EXTINGUISHING MEDIA**

Fire can be extinguished using: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc. Do not use water jet as an extinguisher, as this will spread the fire.

SPECIAL FIRE FIGHTING PROCEDURES

Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

7 HANDLING AND STORAGE**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. Vapours are heavier than air and may spread near ground to sources of ignition.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a dry and cool place. Keep in original container. Avoid contact with oxidising agents.

STORAGE CLASS

Flammable liquid storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
Calcium Carbonate	OEL		4 mg/m3			
ETHANOL	WEL	1000 ppm	1920 mg/m3			
METHANOL	WEL	200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	
PROPAN-2-OL	WEL	400 ppm	999 mg/m3	500 ppm	1250 mg/m3	
Silicon Dioxide			0.1 mg/m3			
XYLENE	WEL	50 ppm	220 mg/m3	100 ppm	441 mg/m3	Sk

WEL = Workplace Exposure Limit.

OEL = Occupational Exposure Limit.

Sk = Can be absorbed through skin.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT

BLACKFRIAR® PROFESSIONAL Line-Marking Paint - WHITE**PROCESS CONDITIONS**

Provide eyewash station.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Wear mask supplied with: Gas cartridge suitable for organic substances.

HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex).

EYE PROTECTION

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

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of skin contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	White		
ODOUR	Characteristic hydrocarbon. Slight odour of alcohol		
SOLUBILITY	Partially miscible with water.		
RELATIVE DENSITY	1.37 Approx. @20°C.	VAPOUR DENSITY (air=1)	Heavier than air
FLASH POINT (°C)	13°C. CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	3.3
FLAMMABILITY LIMIT - UPPER(%)	19.0	VOLATILE ORGANIC COMPOUND (VOC)	Cat A/i : 399 g/l max. (EU Limit 500 g/l)

10 STABILITY AND REACTIVITY**STABILITY**

No particular stability concerns.

CONDITIONS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

11 TOXICOLOGICAL INFORMATION**GENERAL INFORMATION**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

INHALATION

In high concentrations, vapours may irritate throat and respiratory system and cause coughing. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

INGESTION

Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin.

EYE CONTACT

Irritation of eyes and mucous membranes.

Name	XYLENE
Toxic Dose 1 - LD 50	4300 mg/kg (oral rat)
Toxic Conc. - LC 50	29.49 mg/l/4h (inh-rat)

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Name	METHANOL
Toxic Dose 1 - LD 50	7529 mg/kg (ipr-rat)
Toxicological information	
This material is toxic.	
OTHER HEALTH EFFECTS	
Carcinogen Category 3.	
Name	ETHANOL
Toxic Dose 1 - LD 50	7060 mg/kg (oral rat)
Toxic Conc. - LC 50	20000 mg/l/4h (inh-rat)
Name	PROPAN-2-OL
Toxic Dose 1 - LD 50	4700 - 5500 mg/kg (oral rat)
Toxic Conc. - LC 50	47 - 73 mg/l/4h (inh-rat)
Name	EPOXY RESIN (Number average MW <= 700)
Toxic Dose 1 - LD 50	10000 mg/kg (oral rat)
Name	2-PHENOXYETHANOL
Toxic Dose 1 - LD 50	1260 mg/kg (oral rat)
Name	Calcium Carbonate
Toxic Dose 1 - LD 50	>2000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

The product is not expected to be hazardous to the environment.

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Name XYLENE

Ecotoxicity

The product must not be allowed to enter drains or water courses.

LC 50, 96 Hrs, FISH mg/l 2.6-8.4

EC 50, 48 Hrs, DAPHNIA, mg/l 1.0-4.7

Mobility

Water: Insoluble, the product will spread over the surface and rapidly evaporate. Soil: The product has only slight mobility in the soil and will partially evaporate

Bioaccumulation potential

Likely to bio-accumulate, but with short retention of the order of a week or less.

Degradability

The product is easily biodegradable.

Name METHANOL

Ecotoxicity

Not regarded as dangerous for the environment. The product must not be allowed to enter drains or water courses.

Name ETHANOL

Ecotoxicity

Not considered dangerous to aquatic organisms. The product must not be allowed to enter drains or water courses.

Mobility

The product is soluble in water. The product contains organic solvents which will evaporate easily from all surfaces.

Bioaccumulation potential

The product does not contain any substances expected to be bioaccumulating.

Degradability

The product is readily biodegradable.

Name PROPAN-2-OL

LC 50, 96 Hrs, FISH mg/l 9600

EC 50, 48 Hrs, DAPHNIA, mg/l 4600

Name EPOXY RESIN (Number average MW <= 700)

Ecotoxicity

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

LC 50, 96 Hrs, FISH mg/l 3.6

EC 50, 48 Hrs, DAPHNIA, mg/l 2.8

IC 50, 72 Hrs, ALGAE, mg/l 220

Degradability

The product is not readily biodegradable.

Acute Fish Toxicity

Toxic to fish and aquatic organisms.

Name 2-PHENOXYETHANOL

LC 50, 96 Hrs, FISH mg/l 345

Name Calcium Carbonate

LC 50, 96 Hrs, FISH mg/l >10000

EC 50, 48 Hrs, DAPHNIA, mg/l >1000

IC 50, 72 Hrs, ALGAE, mg/l >200

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

14 TRANSPORT INFORMATION

GENERAL

In pack sizes less than 450 litres, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR. In pack sizes up to and including 30 litres, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG Code, but both full documentation and placarding of cargo transport units is still required.

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UK ROAD CLASS	3		
PROPER SHIPPING NAME	PAINT		
UN NO. ROAD	1263	UK ROAD PACK GR.	III
ADR CLASS NO.	3	ADR CLASS	Class 3: Flammable liquids.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(D/E)
HAZARD No. (ADR)	30	ADR LABEL NO.	3
HAZCHEM CODE	3YE	CEPIC TEC(R) NO.	30GF1-III, 30GF1-sp
RID CLASS NO.	3	RID PACK GROUP	III
UN NO. SEA	1263	IMDG CLASS	3
IMDG PAGE NO.	3	IMDG PACK GR.	III
EMS	F-E, S-E	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1263
AIR CLASS	3	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Highly Flammable

RISK PHRASES

R11 Highly flammable.

SAFETY PHRASES

S2 Keep out of the reach of children.
 S9 Keep container in a well-ventilated place.
 S16 Keep away from sources of ignition - No smoking.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 S51 Use only in well-ventilated areas.
 S56 Dispose of this material and its container to hazardous or special waste collection point.
 P5 Contains epoxy constituents. See information supplied by the manufacturer.
 P14 Contains EPOXY RESIN (Number average MW <= 700). May produce an allergic reaction.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

16 OTHER INFORMATION

INFORMATION SOURCES

Croner's Emergency Spillage Guide Croner's Emergency First Aid Guide Croner's Substances Hazardous to Health

REVISION COMMENTS

VOC Information added to section 9 Change of name.

ISSUED BY

D Charles

REVISION DATE 28/02/2011

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SDS NO. 14583

BLACKFRIAR® PROFESSIONAL Line-Marking Paint - WHITE

SAFETY DATA SHEET STATUS

Approved.

DATE 01/03/2011

RISK PHRASES IN FULL

R48	Danger of serious damage to health by prolonged exposure.
R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R20	Harmful by inhalation.
R11	Highly flammable.
R36/38	Irritating to eyes and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
NC	Not classified.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R67	Vapours may cause drowsiness and dizziness.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.