



J. McCormack



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SAFETY DATA SHEET

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

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

PRODUCT NAME	BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base
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.	BF2130004
APPLICATION	Base component for a brush / roller-applied two-pack, solvent-borne, Anti-Graffiti lacquer.
CONTACT PERSON	ian.mccormack@tor-coatings.com;

2 HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) Xn;R20/21. Xi;R36/38. R10, R52/53.

ENVIRONMENT

The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See section 12.

PHYSICAL AND CHEMICAL HAZARDS

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

HUMAN HEALTH

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea. Risk of serious damage to eyes. Vapours/aerosol spray may irritate the respiratory system. Repeated exposure may cause skin dryness or cracking.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
XYLENE	215-535-7	1330-20-7	10-30%	R10 Xn;R20/21 Xi;R38
2-METHOXY-1-METHYLETHYL ACETATE	203-603-9	108-65-6	10-30%	R10 Xi;R36
Carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidene		145899-78-1	1-5%	Xi;R41. R52.
Silicon Dioxide	238-878-4	14808-60-7	1-5%	T;R48. Xn;R20.
Solvent Naptha Light Aromatic	265-199-0	64742-95-6	1-5%	Xn;R65. Xi;R37. N;R51/53. R66.
1,2,4-TRIMETHYLBENZENE	202-436-9	95-63-6	1-5%	R10 Xn;R20 Xi;R36/37/38 N;R51/53
Naptha (Petroleum) Hydrotreated Heavy	265-150-3	64742-48-9	< 1%	Xn;R65. R10,R67,R52.
Zinc Carboxylate	205-251-1	136-53-8	< 1%	Xi;R38. N;R51/53.
CUMENE	202-704-5	98-82-8	< 1%	R10 Xn;R65 Xi;R37 N;R51/53
MESITYLENE	203-604-4	108-67-8	< 1%	R10 Xi;R37 N;R51/53
ISO-BUTANOL	201-148-0	78-83-1	< 1%	R10 Xi;R37/38,R41 R67
2-BUTOXYETHANOL	203-905-0	111-76-2	< 1%	Xn;R20/21/22 Xi;R36/38

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

4 FIRST-AID MEASURES

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

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.

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

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-BUTOXYETHANOL	WEL	25 ppm(Sk)		50 ppm(Sk)		
2-METHOXY-1-METHYLETHYL ACETATE	WEL	50 ppm(Sk)	274 mg/m3(Sk)	100 ppm(Sk)	548 mg/m3(Sk)	
CUMENE	WEL	25 ppm(Sk)	125 mg/m3(Sk)	50 ppm(Sk)	250 mg/m3(Sk)	
ISO-BUTANOL	WEL	50 ppm	154 mg/m3	75 ppm	231 mg/m3	
Naptha (Petroleum) Hydrotreated Heavy	OES		1000 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.

Sk = Can be absorbed through skin.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT**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	Colourless		
ODOUR	Characteristic hydrocarbon.		
SOLUBILITY	Immiscible with water		
RELATIVE DENSITY	1.00 Approx. @20°C.	VAPOUR DENSITY (air=1)	Heavier than air
FLASH POINT (°C)	23°C. CC (Closed cup).	FLAMMABILITY LIMIT - LOWER(%)	0.7
FLAMMABILITY LIMIT - UPPER(%)	20.5	VOLATILE ORGANIC COMPOUND (VOC)	Mixed product : Cat A/j : <500 g/l (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.

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

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. Gas or vapour is harmful on prolonged exposure or in high concentrations.

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. May be absorbed through the 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)
Name	CUMENE
Toxic Dose 1 - LD 50	1400 - 2200 mg/kg (oral rat)
Toxic Conc. - LC 50	8000 ppm/4h (inh-rat)
Name	ISO-BUTANOL
Toxic Dose 1 - LD 50	2460 mg/kg (oral rat)

OTHER HEALTH EFFECTS

Toxic through skin absorption. Swallowing may cause severe internal injury, unconsciousness or death. May cause skin/eye irritation and burns (corrosive).

Name	2-BUTOXYETHANOL
Toxic Dose 1 - LD 50	470 mg/kg (oral rat)
Toxic Conc. - LC 50	450 ppm/4h (inh-rat)
Name	1,2,4-TRIMETHYLBENZENE
Toxic Dose 1 - LD 50	>3400 mg/kg (oral rat)
Toxic Conc. - LC 50	>3 mg/l/4h (inh-rat)
Name	2-METHOXY-1-METHYLETHYL ACETATE
Toxic Dose 1 - LD 50	5135 mg/kg (oral rat)
Name	Solvent Naptha Light Aromatic
Toxic Dose 1 - LD 50	>3000 mg/kg (oral rat)
Name	Naptha (Petroleum) Hydrotreated Heavy
Toxic Dose 1 - LD 50	5000 mg/kg (oral rat)
Name	Carbonato-bis-N-ethyl-2-isopropyl-1,3-oxazolidene
Toxic Dose 1 - LD 50	2000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

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 CUMENE

Ecotoxicity

Toxic to aquatic organisms.

Mobility

May partition into air, soil and water.

Bioaccumulation potential

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

Degradability

The product is readily biodegradable.

Name ISO-BUTANOL

LC 50, 96 Hrs, FISH mg/l 100-1430

Mobility

No specific test data available.

Bioaccumulation potential

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

Degradability

Readily biodegradeable. Presence in surface waters may present a hazard in terms of Oxygen depletion.

Name 2-BUTOXYETHANOL

LC 50, 96 Hrs, FISH mg/l >100

Bioaccumulation potential

This material is not expected to significantly bioaccumulate.

Degradability

The product is moderately biodegradable.

Acute Fish Toxicity

Not expected to be toxic to aquatic life.

Name 1,2,4-TRIMETHYLBENZENE

LC 50, 96 Hrs, FISH mg/l 1-10

EC 50, 48 Hrs, DAPHNIA, mg/l 1-10

IC 50, 72 Hrs, ALGAE, mg/l 1-10

Name 2-METHOXY-1-METHYLETHYL ACETATE

Ecotoxicity

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

LC 50, 96 Hrs, FISH mg/l 100-180

EC 50, 48 Hrs, DAPHNIA, mg/l 408-500

Mobility

Readily absorbed into soil.

Bioaccumulation potential

This material is not expected to significantly bioaccumulate. Log Pow <3 ; BCF <100

Degradability

The product is readily biodegradable.

Name Solvent Naptha Light Aromatic

LC 50, 96 Hrs, FISH mg/l 1-10

EC 50, 48 Hrs, DAPHNIA, mg/l 1-10

IC 50, 72 Hrs, ALGAE, mg/l 1-10

Name Naptha (Petroleum) Hydrotreated Heavy

LC 50, 96 Hrs, FISH mg/l 100

Mobility

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

BLACKFRIAR® PROFESSIONAL Anti-Graffiti Lacquer Base

R20/21	Harmful by inhalation and in contact with skin.
R36/38	Irritating to eyes and skin.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing and gloves.
S46	If swallowed, seek medical advice immediately and show this container or label.
S60	This material and its container must be disposed of as hazardous waste.

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 01/03/2011

REV. NO./REPL. SDS GENERATED 3

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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.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R20	Harmful by inhalation.
R52	Harmful to aquatic organisms.
R65	Harmful: may cause lung damage if swallowed.
R36/38	Irritating to eyes and skin.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R37/38	Irritating to respiratory system and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R66	Repeated exposure may cause skin dryness or cracking.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.