



J. McCormack



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SAFETY DATA SHEET

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED

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

PRODUCT NAME BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED

SUPPLIER Blackfriar Paints Ltd
Portobello Industrial Estate
Birtley
County Durham
DH3 2RE
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blackfriar@tor-coatings.com

PRODUCT NO. BF2030001

APPLICATION Base for two-component, abrasion- and chemical-resistant floor coating.

CONTACT PERSON ian.mccormack@tor-coatings.com;

2 HAZARDS IDENTIFICATION

Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION (1999/45) Xi;R36/38. R43. N;R51/53.

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. Vapours/aerosol spray may irritate the respiratory system. Risk of sensitisation or allergic reactions among sensitive individuals. 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)
EPOXY RESIN (Number average MW <= 700)	500-033-5	25068-38-6	30-60%	R43 Xi;R36/38 N;R51/53
C.I. Pigment Red 101		1309-37-1	5-10%	-
OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS		68609-97-2	5-10%	R43 Xi;R38
C13/C15 Alkyl Glycidyl Ether	268-358-2	68081-84-5	1-5%	Xi;R36/38. N;R51/53. R43.
XYLENE	215-535-7	1330-20-7	< 1%	R10 Xn;R20/21 Xi;R38
ISO-BUTANOL	201-148-0	78-83-1	< 1%	R10 Xi;R37/38,R41 R67

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.

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.

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED**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

Do not discharge into drains, water courses or onto the ground. 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
C.I. Pigment Red 101			5 mg/m ³		10 mg/m ³	
ISO-BUTANOL	WEL	50 ppm	154 mg/m ³	75 ppm	231 mg/m ³	
XYLENE	WEL	50 ppm	220 mg/m ³	100 ppm	441 mg/m ³	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.

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED**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	Red-brown		
ODOUR	Mild		
SOLUBILITY	Immiscible with water		
RELATIVE DENSITY	1.69 Approx. @20°C.	VAPOUR DENSITY (air=1)	Heavier than air
FLASH POINT (°C)	110°C. CC (Closed cup).	VOLATILE ORGANIC COMPOUND (VOC)	Mixed material - 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.

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

May cause sensitisation by skin contact.

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	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	EPOXY RESIN (Number average MW <= 700)
Toxic Dose 1 - LD 50	10000 mg/kg (oral rat)
Name	OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS
Toxic Dose 1 - LD 50	17100 mg/kg (oral rat)
Name	C13/C15 Alkyl Glycidyl Ether
Toxic Dose 1 - LD 50	5000 mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED**ECOTOXICITY**

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

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 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 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 OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS

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 C13/C15 Alkyl Glycidyl Ether

Ecotoxicity

Dangerous for the environment if discharged into watercourses. The product contains a substance which is toxic to soil organisms. The product must not be allowed to enter drains or water courses. Danger to drinking water if even small quantities leak into soil.

Acute Fish Toxicity

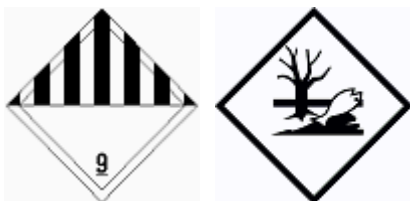
Toxic to fish and aquatic organisms.

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

UK ROAD CLASS

9

PROPER SHIPPING NAME

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN (Number average MW <= 700))

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED

UN NO. ROAD	3082	UK ROAD PACK GR.	III
ADR CLASS NO.	9	ADR CLASS	Class 9: Miscellaneous dangerous substances and articles.
ADR PACK GROUP	III	TUNNEL RESTRICTION CODE	(E)
HAZARD No. (ADR)	90	ADR LABEL NO.	9
HAZCHEM CODE	*3Z	CEFIC TEC(R) NO.	90GM6-III
RID CLASS NO.	9	RID PACK GROUP	III
UN NO. SEA	3082	IMDG CLASS	9
IMDG PAGE NO.	9	IMDG PACK GR.	III
EMS	F-A, S-F	UN NO. AIR	3082
AIR CLASS	9	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Irritant



Dangerous for the environment

CONTAINS

EPOXY RESIN (Number average MW <= 700)
 OXIRANE, MONO [(C12-14- ALKYL OXY)METHYL] DERIVS
 C13/C15 Alkyl Glycidyl Ether

RISK PHRASES

R36/38 Irritating to eyes and skin.
 R43 May cause sensitisation by skin contact.
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
 S29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
 S37 Wear suitable gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.
 P5 Contains epoxy constituents. See information supplied by the manufacturer.
 S2 Keep out of the reach of children.

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

REV. NO./REPL. SDS GENERATED 2

SDS NO. 17201

SAFETY DATA SHEET STATUS

Approved.

DATE 28/02/2011

BLACKFRIAR® PROFESSIONAL Solvent-Free Epoxy Floor Paint Base - TILE RED

RISK PHRASES IN FULL

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
NC	Not classified.
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.