



*J. M. Ratcliffe*



Ardenbrite™

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SAFETY DATA SHEET  
ARDENBRITE QD BASECOAT

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

PRODUCT NAME ARDENBRITE QD BASECOAT  
 PRODUCT NO. AB4380020  
 APPLICATION Intended for use as a single-component, water-borne basecoat for Ardenbrite Metallic finishes.  
 SUPPLIER Blackfriar Paints Ltd  
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**2 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

ENVIRONMENT

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

HUMAN HEALTH

Prolonged contact may cause redness, irritation and dry skin. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
2-(2-BUTOXYETHOXY)ETHANOL	203-961-6	112-34-5	1-5%	Xi;R36
Silicon Dioxide	238-878-4	14808-60-7	< 1%	T;R48. Xn;R20.
AMMONIA ...%	215-647-6	1336-21-6	< 1%	C;R34 N;R50
SODIUM NITRITE	231-555-9	7632-00-0	< 1%	O;R8 T;R25 N;R50
2-AMINOETHANOL	205-483-3	141-43-5	< 1%	C;R34 Xn;R20/21/22

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 take 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.

**ARDENBRITE QD BASECOAT****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**

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

**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**

Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

**STORAGE PRECAUTIONS**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Avoid contact with oxidising agents.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
2-(2-BUTOXYETHOXY)ETHANOL		10 ppm	67.5 mg/m <sup>3</sup>	15 ppm	101.2 mg/m <sup>3</sup>	
2-AMINOETHANOL		1 ppm(Sk)	2.5 mg/m <sup>3</sup> (Sk)	3 ppm(Sk)	7.6 mg/m <sup>3</sup> (Sk)	
AMMONIA ...%	WEL	25 ppm	18 mg/m <sup>3</sup>	35 ppm	25 mg/m <sup>3</sup>	
Silicon Dioxide			0.1 mg/m <sup>3</sup>			

WEL = Workplace Exposure Limit.  
mg/m<sup>3</sup>(Sk)

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT**

**ARDENBRITE QD BASECOAT****PROCESS CONDITIONS**

Provide eyewash station.

**ENGINEERING MEASURES**

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

All handling to take place in well-ventilated area.

**RESPIRATORY EQUIPMENT**

Provide adequate ventilation. Observe Workplace Exposure Limits and minimise the risk of inhalation of vapours.

**HAND PROTECTION**

Protective gloves should be used if there is a risk of direct contact or splash.

**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	Buff		
ODOUR	Mild		
SOLUBILITY	Miscible with water.		
RELATIVE DENSITY	1.21 Approx. @20°C.	VAPOUR DENSITY (air=1)	Heavier than air
pH-VALUE, CONC. SOLUTION	7 - 8		

**10 STABILITY AND REACTIVITY****STABILITY**

No particular stability concerns.

**HAZARDOUS DECOMPOSITION PRODUCTS**

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

**11 TOXICOLOGICAL INFORMATION****GENERAL INFORMATION**

Not regarded as a health hazard under current legislation.

Name	2,2,4-Trimethyl-1,3-Pentanediol-Monoisobutyrate
Toxic Dose 1 - LD 50	6517 mg/kg (oral rat)
Toxic Dose 2 - LD 50	1600 - 3200 mg/kg (oral-mouse)
Name	C.I. Pigment Yellow 42
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

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

### ARDENBRITE QD BASECOAT

Name	2,2,4-Trimethyl-1,3-Pentanediol-Monoisobutyrate
Partition coefficient	P: 2951; Log P: 3.47
LC 50, 96 Hrs, FISH mg/l	19 - Oncorhynchus mykiss
EC 50, 48 Hrs, DAPHNIA, mg/l	19
IC 50, 72 Hrs, ALGAE, mg/l	15
Mobility	
Mobile.	
Degradability	
The product is biodegradable.	

#### 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. Absorb in vermiculite or dry sand, dispose in licensed hazardous waste.

#### 14 TRANSPORT INFORMATION

##### GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).  
No transport warning sign required.

#### 15 REGULATORY INFORMATION

##### RISK PHRASES

NC Not classified.

##### SAFETY PHRASES

S2 Keep out of the reach of children

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

##### 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

Name change of some ingredients. Data added to section 9.

##### ISSUED BY

D Charles

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##### SAFETY DATA SHEET STATUS

Approved.

## ARDENBRITE QD BASECOAT

DATE 14/04/2010

### RISK PHRASES IN FULL

R20	Harmful by inhalation.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R25	Toxic if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R48	Danger of serious damage to health by prolonged exposure.
R50	Very toxic to aquatic organisms.
R8	Contact with combustible material may cause fire.

### 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.