



J. McRatcliffe



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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 Portobello Industrial Estate Birtley County Durham DH3 2RE +44(0)191 4106611 +44(0)191 4113147 blackfriar@tor-coatings.com
CONTACT PERSON	ian.mccormack@tor-coatings.com
EMERGENCY TELEPHONE	+44(0)1865 407333 (NCEC)

2 HAZARDS IDENTIFICATION

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

CLASSIFICATION (1999/45) Not classified.

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 (67/548/EEC)
2-(2-BUTOXYETHOXY)ETHANOL	203-961-6	112-34-5	1.0-2.5%	Xi;R36
MonoPropylene Glycol	200-338-0	57-55-6	< 1%	-
Distillates (Petroleum), Solvent Dewaxed Heavy Paraffinic	265-169-7	64742-65-0	< 1%	-
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 is 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 can take place. 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.

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/m3	15 ppm	101.2 mg/m3	
2-AMINOETHANOL		1 ppm(Sk)	2.5 mg/m3(Sk)	3 ppm(Sk)	7.6 mg/m3(Sk)	
AMMONIA ...%	WEL	25 ppm	18 mg/m3	35 ppm	25 mg/m3	
Distillates (Petroleum), Solvent Dewaxed Heavy Paraffinic	OEL		5 mg/m3			
MonoPropylene Glycol	WEL	150 ppm	474 mg/m3			

WEL = Workplace Exposure Limit.

mg/m3(Sk)

OEL = Occupational Exposure Limit.

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.

Ardenbrite QD Basecoat

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	1.23 Approx. @20°C.
VAPOUR DENSITY (air=1)	Heavier than air
pH-VALUE, CONC. SOLUTION	7 - 8
VOLATILE ORGANIC COMPOUND (VOC)	Cat A/i : <140 g/l (EU Limit 140 g/l)

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	AMMONIA ...%
Toxic Dose 1 - LD 50	350 mg/kg (oral rat)
Toxic Conc. - LC 50	2 mg/l/4h (inh-rat)
Name	SODIUM NITRITE
Toxic Dose 1 - LD 50	85 - 180 mg/kg (oral rat)
Toxic Dose 2 - LD 50	175 mg/kg (oral-mouse)
Toxic Conc. - LC 50	5.5 mg/l/4h (inh-rat)
Name	2-AMINOETHANOL
Toxic Dose 1 - LD 50	1720 mg/kg (oral rat)
Name	2-(2-BUTOXYETHOXY)ETHANOL
Toxic Dose 1 - LD 50	4500 - 5660 mg/kg (oral rat)
Toxic Dose 2 - LD 50	2400 - 6050 mg/kg (oral-mouse)
Name	Texanol
Toxic Dose 1 - LD 50	3200 mg/kg (oral rat)
Toxic Dose 2 - LD 50	1600 - 3200 mg/kg (oral-mouse)
Name	MonoPropylene Glycol
Toxic Dose 1 - LD 50	>2000 mg/kg (oral rat)
Name	C.I. Pigment Yellow 42
Toxic Dose 1 - LD 50	>5000 mg/kg (oral rat)
Name	Distillates (Petroleum), Solvent Dewaxed Heavy Paraffinic

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

Ardenbrite QD Basecoat

Name AMMONIA ...%

Ecotoxicity

Very toxic to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l 15

EC 50, 48 Hrs, Daphnia, mg/l 89

Mobility

The product is water soluble and may spread in water systems.

Bioaccumulative potential

This material is not expected to significantly bioaccumulate.

Degradability

The product is biodegradable.

Name SODIUM NITRITE

Ecotoxicity

Very toxic to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l 0.19 - 1.78

EC 50, 48 Hrs, Daphnia, mg/l 12.5 - 100

Mobility

The product is soluble in water.

Bioaccumulative potential

The product is not bioaccumulating.

Name 2-AMINOETHANOL

Ecotoxicity

The product contains a substance which is harmful to aquatic organisms.

LC 50, 96 Hrs, Fish mg/l 170 - 227

EC 50, 48 Hrs, Daphnia, mg/l 65

IC 50, 72 Hrs, Algae, mg/l 15

Bioaccumulative potential

This material is not expected to significantly bioaccumulate.

Degradability

The product is easily biodegradable. The product is degraded completely by photochemical oxidation.

Name 2-(2-BUTOXYETHOXY)ETHANOL

Ecotoxicity

The product contains a substance which causes risk of hazardous effects to the environment.

LC 50, 96 Hrs, Fish mg/l 1300

EC 50, 48 Hrs, Daphnia, mg/l 100

Mobility

The product is soluble in water.

Bioaccumulative potential

This material is not expected to significantly bioaccumulate.

Degradability

The product is moderately biodegradable.

Name Texanol

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.

Name MonoPropylene Glycol

Partition Coefficient 0.92 (water/Octanol)

LC 50, 96 Hrs, Fish mg/l 40613

EC 50, 48 Hrs, Daphnia, mg/l >100

Name Distillates (Petroleum), Solvent Dewaxed Heavy Paraffinic

13 DISPOSAL CONSIDERATIONS

Ardenbrite QD Basecoat

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 and dispose of at a licenced hazardous waste collection point.

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.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	No.

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

Amended in line with HSE requirements.

ISSUED BY

D Charles

REVISION DATE 14/06/2012

REV. NO./REPL. SDS GENERATED 4

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SAFETY DATA SHEET STATUS

Approved.

DATE 14/06/2012

RISK PHRASES IN FULL

R34 Causes burns.
R8 Contact with combustible material may cause fire.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
NC Not classified.
R25 Toxic if swallowed.
R50 Very toxic to aquatic organisms.

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.