



SAFETY DATA SHEET

Broflame Ultra Basecoat

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

PRODUCT NAME	Broflame Ultra Basecoat
PRODUCT NO.	BM0640002
APPLICATION	Intended for use as a Flame Retardant
SUPPLIER	Bollom Fire Protection Portobello Industrial Estate Birtley County Durham DH3 2RE +44 191 4106611 +44 191 4920125 enquiries@tor-coatings.com
CONTACT PERSON	ian.mccormack@tor-coatings.com
EMERGENCY TELEPHONE	+44(0)1865 407333 (NCEC)

2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45)	Not classified.	
CLASSIFICATION (EC 1272/2008)	Physical and Chemical Hazards	Not classified.
	Human health	Not classified.
	Environment	Not classified.

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008
Not classified.

PRECAUTIONARY STATEMENTS

P102	Keep out of reach of children.
P281	Use personal protective equipment as required.
P302+350	IF ON SKIN: Gently wash with plenty of soap and water.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Label Information (EU)	
EUH210	Safety data sheet available on request.

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

2-AMINOETHANOL	< 1%
CAS-No.: 141-43-5	EC No.: 205-483-3
Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 4 - H302	C;R34
Acute Tox. 4 - H312	Xn;R20/21/22
Acute Tox. 4 - H332	
Skin Corr. 1B - H314	
STOT Single 3 - H335	

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

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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.

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-AMINOETHANOL		1 ppm(Sk)	2.5 mg/m3(Sk)	3 ppm(Sk)	7.6 mg/m3(Sk)	

mg/m3(Sk)

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Provide eyewash station.

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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.

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	White / off-white.
ODOUR	Mild.
SOLUBILITY	Miscible with water
RELATIVE DENSITY	1.36 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	2-AMINOETHANOL
Toxic Dose 1 - LD 50	1720 mg/kg (oral rat)
Name	2,2',2''-(HEXAHYDRO-1,3,5-TRIAZINE-1,3,5-TRIYL)TRIETHANOL
Toxic Dose 1 - LD 50	535-580 mg/kg (oral rat)
Name	MonoPropylene Glycol
Toxic Dose 1 - LD 50	>2000 mg/kg (oral rat)
Name	Octylphenoxy polyethoxyethanol
Toxic Dose 1 - LD 50	2800 - 4190 mg/kg (oral rat)
Name	Poly(oxy-1,2-ethanediyl), .alpha.-octadecyl-.omega.-hydroxy-

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

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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',2''-(HEXAHYDRO-1,3,5-TRIAZINE-1,3,5-TRIYL)TRIETHANOL

Ecotoxicity

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, Fish mg/l 27 - 67.3

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 Octylphenoxy polyethoxyethanol

LC 50, 96 Hrs, Fish mg/l 4 - 8.9

EC 50, 48 Hrs, Daphnia, mg/l 18 - 26

Degradability

The product is >60% biodegradable.

Name Poly(oxy-1,2-ethanediy), .alpha.-octadecyl-.omega.-hydroxy-

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 and dispose of at a licensed 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

EU DIRECTIVES

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

APPROVED CODE OF PRACTICE

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

NATIONAL REGULATIONS

Workplace Exposure Limits 2005 (EH40) Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

INFORMATION SOURCES

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

REVISION COMMENTS

This is first issue.

ISSUED BY

D Charles

REVISION DATE 02/12/2004

REV. NO./REPL. SDS GENERATED 1

SDS NO. 18089

Broflame Ultra Basecoat

SAFETY DATA SHEET STATUS

Approved.

DATE 29/05/2012

RISK PHRASES IN FULL

R34 Causes burns.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R37 Irritating to respiratory system.

HAZARD STATEMENTS IN FULL

H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H335 May cause respiratory irritation.

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.