



SAFETY DATA SHEET

Flameguard Ultra Primer

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

| | |
|---------------------|---|
| PRODUCT NAME | Flameguard Ultra Primer |
| PRODUCT NO. | BM0600002 |
| SUPPLIER | Bollom Fire Protection Portobello Industrial Estate Birtley County Durham DH3 2RE +44 191 4106611 +44 191 4920125 enquiries@tor-coatings.com |
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2 HAZARDS IDENTIFICATION

CLASSIFICATION (1999/45) R52/53.

CLASSIFICATION (EC 1272/2008)

| | |
|-------------------------------|--------------------------|
| Physical and Chemical Hazards | Not classified. |
| Human health | Not classified. |
| Environment | Aquatic Chronic 3 - H412 |

LABEL IN ACCORDANCE WITH (EC) NO. 1272/2008

Not classified.

HAZARD STATEMENTS

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

| | |
|--------------|--|
| P102 | Keep out of reach of children. |
| P302+352 | IF ON SKIN: 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. |
| P501 | Dispose of contents/container to ... |

SUPPLEMENTARY PRECAUTIONARY STATEMENTS

P273 Avoid release to the environment.

Supplemental Label Information (EU)

EUH210 Safety data sheet available on request.

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.

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

ETHANEDIOL

1.0-2.5%

CAS-No.: 107-21-1

EC No.: 203-473-3

Classification (EC 1272/2008)
Acute Tox. 4 - H302

Classification (67/548/EEC)
Xn;R22

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| | |
|---|---|
| ZINC OXIDE | 1.0-2.5% |
| CAS-No.: 1314-13-2 | EC No.: 215-222-5 |
| Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | Classification (67/548/EEC) N;R50/53 |
| 2-(2-BUTOXYETHOXY)ETHANOL | < 1% |
| CAS-No.: 112-34-5 | EC No.: 203-961-6 |
| Classification (EC 1272/2008) Eye Irrit. 2 - H319 | Classification (67/548/EEC) Xi;R36 |
| AMMONIA ...% | < 1% |
| CAS-No.: 1336-21-6 | EC No.: 215-647-6 |
| Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT Single 3 - H335 Aquatic Acute 1 - H400 | Classification (67/548/EEC) C;R34 N;R50 |
| SODIUM NITRITE | < 1% |
| CAS-No.: 7632-00-0 | EC No.: 231-555-9 |
| Classification (EC 1272/2008) Ox. Sol. 3 - H272 Acute Tox. 3 - H301 Aquatic Acute 1 - H400 | Classification (67/548/EEC) O;R8 T;R25 N;R50 |

The Full Text for all R-Phrases and Hazard Statements 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.

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

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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 | |
| AMMONIA ...% | WEL | 25 ppm | 18 mg/m3 | 35 ppm | 25 mg/m3 | |
| ETHANEDIOL | WEL | | 52 mg/m3(Sk) | | 104 mg/m3(Sk) | |

WEL = Workplace 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.

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. |
| ODOUR | Mild. |
| SOLUBILITY | Miscible with water |
| RELATIVE DENSITY | 1.34 Approx. @20°C. |
| VAPOUR DENSITY (air=1) | Heavier than air |
| VOLATILE ORGANIC COMPOUND (VOC) | Cat A/i : <140 g/l (EU Limit 140 g/l) |

10 STABILITY AND REACTIVITY

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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

SKIN CONTACT

Prolonged contact may cause redness and irritation.

EYE CONTACT

Slightly irritating.

| | |
|----------------------|--------------------------------|
| 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 | ETHANEDIOL |
| Toxic Dose 1 - LD 50 | 4700 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 | ZINC OXIDE |
| Toxic Dose 1 - LD 50 | >15000 mg/kg (oral rat) |
| Toxic Dose 2 - LD 50 | 7950 mg/kg (oral-mouse) |
| Toxic Conc. - LC 50 | >5.7 mg/l/4h (inh-rat) |

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

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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 ETHANEDIOL

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

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 ZINC OXIDE

Ecotoxicity

The product must not be allowed to enter drains or water courses.

IC 50, 72 Hrs, Algae, mg/l 170

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

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)

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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 07/01/2005

REV. NO./REPL. SDS GENERATED 1

SDS NO. 18093

SAFETY DATA SHEET STATUS

Approved.

DATE 18/06/2012

RISK PHRASES IN FULL

R34 Causes burns.
R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R25 Toxic if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50 Very toxic to aquatic organisms.

HAZARD STATEMENTS IN FULL

H319 Causes serious eye irritation.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.

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.