

BROSTEEL ULTRA 60



Brosteel Ultra 60 - MSDS - Sept 2008
Revision 1

1. Identification of Preparation & Company

Type of Product: Brosteel Ultra 60 is a thin film intumescent coating for the fire protection of internal structural steelwork.

Company: Tor Coatings, Portobello Industrial Estate, Birtley, Chester-le-Street, Co. Durham, DH3 2RE.

Tel: +44 (0)191 410 6611. E-mail: enquiries@tor-coatings.com.

2. Hazards Identification

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Name	CAS No	EINECS No	Symbol and Risk	%
Zinc Oxide	1314-13-2	215-222-5	N: R50 / R53	0 - 0.5%
Naptha (Petroleum) Hydrodesulphurised Heavy	64742-82-1	265-185-4	Xn,N: R10, R51/53, R65	0 - 2 %

4. First Aid Measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

Eye Contact: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding eyelids apart, and seek medical advice.

Skin Contact: Wash with plenty of soap and water. Do not use organic solvents.

Ingestion: Do not induce vomiting. Keep at rest and obtain immediate medical attention.

5. Fire Fighting Measures

Suitable Extinguishing Media: Alcohol resistant foam, CO₂, powder, water spray/mist.

Do NOT Use: High-pressure water jet.

Recommendations: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Exposure to decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire-fighting to enter drains or water courses.

6. Accident Release Measures

Personal protection: Use personal protective equipment as recommended in Section 8 of this sheet.

Environmental precautions: Avoid contamination of soil, drains, and surface water. If the product enters drains or watercourses inform the relevant authority.

Methods for disposal: Absorb in an inert material such as sand, vermiculite or earth. Transfer to sealed containers for disposal.

Clean up: Use detergents where possible: avoid the use of solvents.

7. Handling and Storage

Handling: Keep the container tightly closed when not in use. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For Personal Protection, see Section 8. Never use pressure to empty: the container is not a pressure vessel. Always keep in containers made of the same material as the supply container.

Storage: Observe the label precautions. Store between 5°C and 30°C in a dry, well ventilated place away from the sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which have been opened should be properly resealed and kept upright to prevent leakage.

Protect from frost. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

8. Exposure Controls / Personal Protection

Engineering Measure: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction (see Personal Protection below).

Exposure Control Limits: The solvent present at low concentration in this formulation is not specifically listed in EH40 but based on guidance on similar hydrocarbon solvents an LTEL (8hr TWA) of 150ppm is recommended.

Respiratory Protection: For spraying operations if exhaust ventilation is insufficient, use a respirator with a suitable filter for particulates, or air-fed respiratory equipment.

Hand Protection: When skin exposure may occur, wear suitable gloves, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye Protection: Eye protection designed to protect against liquid splashes should be worn.

Skin Protection: Cotton or cotton / synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

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9. Physical and Chemical Properties

Melting Point:	<0°C	Boiling Point:	100°C
Oxidising Properties:	None known.	Autoflammability:	Not applicable.
Solubility (Water):	Dispersible.	Vapour Pressure:	2.4kPa (20°C)
Explosive Limits:	Not applicable.	Appearance:	Off white viscous liquid.
Odour:	None.	Density:	1.3 - 1.5 g/ml (25°C)
Flashpoint:	Not applicable.	Volatile Organic Content:	15 g/litre
pH (In Water):	8.0 - 9.5.	Viscosity:	75 - 110 Poise (20°C)

10. Stability and Reactivity

Stable under the recommended storage and handling conditions (see Section 7).

In a fire, hazardous decomposition products such as smoke, carbon monoxide, oxides of nitrogen and hydrochloric acid may be produced.

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11. Toxicological Information

There is no data available on the product itself.

All ingredients are of relatively low toxicity.

12. Ecological Information

There is no data available on the product itself.

The product contains small amounts of Zinc salts which are harmful to aquatic life and may persist within the aquatic environment. The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters.

13. Disposal Considerations

The undiluted Product, including uncleaned containers, is classified as hazardous waste according to EU directives: in the UK refer to the Hazardous Waste Regulations (2005).

European Waste Catalogue Number: 08 01 11

Hazard Code: H14

14. Transport Information

Transport Within User's Premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

This product is not classified as dangerous for transportation.

15. Regulatory Information

The product is determined as not hazardous according to the CHIP Regulations.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions

of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

VOC Content:

VOC content of 15 g/litre conforms to Directive 2004/42/EC maximum of 140 g/litre.

16. Other Information

FULL TEXT OF RISK PHRASES QUOTED IN SECTION 2:

R10: Flammable.

R51/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65: Harmful: may cause lung damage if swallowed.

DISCLAIMER: The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The product comes within the scope of the Control of Substances Hazardous to Health (COSHH) regulations. It is the responsibility of the user to carry out an assessment of his process under those regulations.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:

COSHH Essentials: easy steps to control chemicals, HS (G) 193. Details of available Control Guidance Sheets, which may be relevant to the particular conditions of use, can also be found in HS (G) 193.

Storage of Packaged Dangerous Substances, HS (G) 71.

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