

# SAFETY DATA SHEET: **BD50 FOAM ARMOUR**

REVISION DATE: 26.06.2015

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ISSUE: 1

## SECTION 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

**1.1 Product name: Foam Armour**

**1.2 Use:** A water-borne Poly Vinyl acetate coating solution used for modelling

**1.3 Supplier of the safety data sheet:**

Deluxe Materials Ltd  
Unit 13, Cufaude Business Park  
Cufaude Lane  
Bramley  
Hampshire RG26 5DL  
United Kingdom

Tel: +44 (0) 1256 883944  
Fax: +44 (0) 1256 883 966

**e-mail of Competent person responsible for SDS:** info@deluxematerials.com

**1.4 Emergency Tel:** +44 (0) 1256 883 944 (office hours only)

## SECTION 2. HAZARDS IDENTIFICATION

**2.1.1 Regulation EC 1272/2008**

This product is not classified as hazardous according to regulation (EC) 1272/2008 (CLP)

**2.2 Label elements**

**2.2.1 Regulation EC 1272/2008**

Signal word: None

Hazard statement: None

**2.3 Other hazards**

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.2 Mixtures**

Ingredient	CAS No.	EC No.	REACH registration No.	Classification according to 67/548/EEC	Classification According to Reg. (EC) 1278/2008 (CLP)	% W/W
2-(2-butoxyethoxy) ethanol	112-34-5	203-961-6	01-2119475104-44-0000	R 36	GHS 07 – H319	1-2%

\*for full text see section 16.

## SECTION 4. FIRST AID MEASURES

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

**Skin Contact:** Wash skin thoroughly with soap and water or a recognised skin cleaner. DO NOT USE SOLVENT OR THINNERS.

**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.

**Ingestion:** If accidentally swallowed wash mouth with water and give water to drink. DO NOT Induce vomiting.

**Inhalation:** Remove to fresh air.

**4.2 Most important symptoms and effects**

**Skin contact:** No symptoms anticipated

**Eye contact:** There may be irritation and redness

**Ingestion:** No symptoms anticipated. If there is any persistence of discomfort seek medical advice

**Inhalation:** No symptoms

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## SECTION 5. FIRE FIGHTING MEASURES

The liquid product is 'non-flammable'.

**5.1 Extinguishing Media:** Recommended: alcohol resistant foam, CO<sub>2</sub>, powder, water spray/mist.

**5.2 Special Hazards:** As the products contain combustible organic components, fire will produce hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

**5.3 Advice for firefighters:** 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.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**6.1: Personal precautions and protective equipment:** Refer to section 8 of SDS for details

**6.2: Environmental precautions:** Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water company should be contacted immediately. In the case of contamination of streams, rivers or lakes, the relevant Environment Agency.

**6.3: Method for containment and clean up:** Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth, and place in a suitable container for disposal in accordance with the waste regulations (see section 13).

## SECTION 7. HANDLING AND STORAGE

**7.1 Precautions for safe handling:** Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8.

**The Manual Handling Operations Regulations** may apply to the handling of containers/packages of this product. In order to calculate the weight of any pack size, multiply the volume in litres by the specific gravity value given in section 9. This will give the net weight of the product in kilograms.

**7.2 Precautions for safe storage:** Keep containers closed when not in use. Never use high pressure to empty. The container is not a pressure vessel. Ensure good housekeeping and regular safe removal of waste materials.

Observe label precautions - Store between 5°C and 25°C in a dry well-ventilated place away from sources of heat. Protect from frost. Keep out of reach of children. Store separately from oxidising agents and strongly alkaline and strongly acidic materials.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Measures:** Provide adequate ventilation during application and drying. Where practicable this should be achieved by the use of local exhaust ventilation. If this is not sufficient to maintain concentration of solvent vapours below the relevant Occupational Exposure Limit, suitable respiratory protection must be worn (see 'Occupational Exposure Controls' below).

### EXPOSURE LIMITS:

Substance	Occupational Exposure Limits				Notations
	8 hr LTEL (1)		15 min STEL(2)		
	ppm	mgm <sup>-3</sup>	ppm	mgm <sup>-3</sup>	
2-(2-butoxyethoxy)ethanol	10	67.5	15	101.2	

(1) Long-term exposure limit - 8 hour time weighted average.

(2) Short-term exposure limit - 15 mins time weighted average.

(S) Occupational Exposure Standard (OES)

(M) Maximum Exposure Limit (MEL)

(R) Recommended by suppliers

(A) Allocated limits by analogy with similar materials

(SK) Risk of absorption through unbroken skin

(Sen) Capable of causing sensitisation by inhalation

**OCCUPATIONAL EXPOSURE CONTROLS:** All Personal Protective Equipment (ppe), including Respiratory Protective Equipment (rpe), used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH regulations.

**RESPIRATORY PROTECTION:** If exposure to hazardous substances identified in section 8 cannot be controlled by the provision of natural ventilation e.g. work in enclosed areas, exposure should be controlled, where reasonably practicable, by the use of mechanical exhaust ventilation; when this is not reasonably practicable, suitable respiratory protective equipment must be worn.

**HAND PROTECTION:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. 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 are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a recognised skin cleaner. ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

physical state	viscous liquid
flash point	>100°C
viscosity	N. Applicable
specific gravity	1.00-1.10 @ 20 °C
solubility in water	miscible when wet.
pH	3.0 – 4.0

## SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity  
No data available
- 10.2 Chemical stability  
Stable under normal temperature and storage conditions
- 10.3 Possibility of hazardous reactions  
None known
- 10.4 Conditions to avoid  
See section 10.3
- 10.5 Incompatible materials  
See section 10.3
- 10.6 Hazardous decomposition products  
Oxides of carbon released under high temperature (>300°C)

## SECTION 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on Toxicological effects  
There is no evidence of toxicological effects of the product
  - Ingestion:** May cause discomfort if swallowed. May cause stomach pain
  - Skin contact:** May be Irritating to skin
  - Eye contact:** Risk of irritation to eyes.
  - Sensitisation:** Not sensitising
  - STOT:** Not classified

## SECTION 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity  
Not regarded as dangerous for the environment.  
Not considered toxic to fish
- 12.2 Persistence and degradability  
The product is not biodegradable.
- 12.3 Bio accumulative potential  
The product is not bio accumulating
- 12.4 Mobility in soil  
Not mobile
- 12.5 Results of PBT and vPvB assessment  
Not classified as PBT/vPvB
- 12.6 Other adverse effects  
None known

**SECTION 13. DISPOSAL CONSIDERATIONS**

Do not allow to enter drains or water courses. Wastes, including emptied containers, are controlled waste and should be disposed of in accordance with regulations made under the 'Control of Pollution Act' and the 'Environmental Protection Act'. Using information provided in this data sheet, advice should be obtained from the relevant Environment Agency whether the Special Waste Regulations apply.

**SECTION 14 TRANSPORT INFORMATION**

**Transport within the users 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 an accident or spillage.

**Onwards transport subsequent to purchase:** Transport to be in accordance with ADR for road, IMDG for sea and ICAO/IATA for air.

Proper shipping name:                   The product is not classified as dangerous for carriage.  
UN number  
Hazard class:  
Packing group:  
Sub-hazard class:

**SECTION 15. REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Control of Substances Hazardous to Health Regulations 1999  
Environment Act 1995  
Management of Health and Safety at Work Regulations 1999  
Personal Protective Equipment at Work Regulations 1992  
Special Waste Regulations 1996 as amended

**HEALTH AND SAFETY EXECUTIVE GUIDANCE NOTES**

HS(G)37           An Introduction to Local Exhaust Ventilation  
EH40             Occupational Exposure Limits  
EH44             Dust: General Principles of Protection  
HS(G)53         The Selection, Use and Maintenance of Respiratory Protective Equipment  
HS(G)71         Storage of Packaged Dangerous Substances  
HS(G)193        COSHH Essentials: easy steps to control chemicals  
L23              Manual Handling Guidance on Regulations

**BRITISH STANDARDS PUBLICATIONS**

EN420:           General Requirements for Gloves  
EN166:           Personal Eye Protection: Specifications  
BS2092:         Eye Protection for Industrial and Non-Industrial Users  
BS4275:         Recommendations for the Selection, Use and Maintenance of Respiratory Protective Equipment

**15.2 Chemical safety assessment****SECTION 16. OTHER INFORMATION****Symbols and text of the H phrases in section 2 and 3:**

H319             Causes serious eye irritation

R36              Irritating to eyes

The information contained in the Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those identified 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. This information contained in the safety data sheet is based on present 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 application.