



**SAFETY DATA SHEET**  
**136/W225 - PROFLOOR PLUS CLEAR - HARDENER**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1. Product identifier**

Product name 136/W225 - PROFLOOR PLUS CLEAR - HARDENER  
Product No. 136/W225/HC - HARDENER

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses HARDENER FOR TWO COMPONENT FLOOR COATING FOR PROFESSIONAL USE ONLY  
Uses advised against NOT SUITABLE FOR FOR USE IN HOMEWORKER (DIY) APPLICATIONS

**1.3. Details of the supplier of the safety data sheet**

Supplier COO-VAR  
Lockwood Street  
Hull  
HU2 0HN  
+44 (0) 1482 328053(T)  
+44 (0) 1482 219266(F)  
info@coo-var.co.uk  
Contact Person Technical Department - 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri as above

**1.4. Emergency telephone number**

+44 (0) 1482 328053 (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

Classification (EC 1272/2008)  
Physical and Chemical Hazards Not classified.  
Human health Acute Tox. 4 - H302; Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Corr. 1B - H314; Skin Sens. 1 - H317  
Environment Aquatic Chronic 3 - H412  
Classification (1999/45/EEC) Xn; R20/21/22. C; R34. R43. R52/53.  
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**2.2. Label elements**

Contains BENZYL ALCOHOL  
ISOPHORONEDIAMINE  
Trimethylhexamethylenediamin

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

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**Hazard Statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P405	Store locked up.
P501	Dispose of contents/container in accordance with national regulations.

**Supplementary Precautionary Statements**

P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P260	Do not breathe vapour/spray.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P322	Specific measures (see ... on this label).
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.

**Supplemental label information**

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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**2.3. Other hazards**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

BENZYL ALCOHOL	30-60%
CAS-No.: 100-51-6	EC No.: 202-859-9
	Registration Number: 01-2119492630-38-XXXX
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H332	Classification (67/548/EEC) Xn;R20/22

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ISOPHORONEDIAMINE		30-60%
CAS-No.: 2855-13-2		EC No.: 220-666-8
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) C;R34 Xn;R21/22 R43 R52/53	
N,N-DIMETHYLBENZYLAMINE		1-5%
CAS-No.: 103-83-3		EC No.: 203-149-1
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Aquatic Chronic 3 - H412	Classification (67/548/EEC) R10 C;R34 Xn;R20/21/22 R52/53	
Trimethylhexamethylenediamin		1-5%
CAS-No.: 25620-58-0		EC No.:
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1A - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xn;R22. C;R35. R43,R52/53.	
REACTION PRODUCT : BISPHENOL A-(EPICHLOROHYDRIN):EPOXY RESIN (NUMBER AVERAGE MW<=700)		<1%
CAS-No.: 25068-38-6		EC No.: 500-033-5
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) R43 Xi;R36/38 N;R51/53	

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

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information

Get medical attention if any discomfort continues.

#### Inhalation

Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Place unconscious person on the side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.

#### Ingestion

Get medical attention immediately! Do not induce vomiting. Immediately give a couple of glasses of water or milk, provided the victim is fully conscious. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

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### Skin contact

Important to remove the substance from the skin immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Continue to rinse for at least 15 minutes. Consult a physician for specific advice. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.

### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No specific first aid measures noted.

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## SECTION 5: FIREFIGHTING MEASURES

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### **5.1. Extinguishing media**

#### Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Fire can be extinguished using: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Non flammable at room temperature, but will burn.

### **5.2. Special hazards arising from the substance or mixture**

#### Specific hazards

When heated and in case of fire, toxic vapours/gases may be formed. Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrous gases (NO<sub>x</sub>).

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Water spray should be used to cool containers.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### **6.1. Personal precautions, protective equipment and emergency procedures**

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear protective gloves and, in case of splashes, goggles/face shield too. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

### **6.2. Environmental precautions**

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

### **6.3. Methods and material for containment and cleaning up**

Wear necessary protective equipment. Clean-up personnel should use respiratory and/or liquid contact protection. Recover the product and place in a suitable container for reuse. Place in metal containers for recovery or disposal. or Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Large Spillages: Recover spilled material with a vacuum truck.

### **6.4. Reference to other sections**

For personal protection, see section 8.

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## SECTION 7: HANDLING AND STORAGE

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### **7.1. Precautions for safe handling**

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Read and follow manufacturer's recommendations. Persons susceptible to allergic reactions should not handle this product. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols or mists containing these resins through engineering controls, such as exhaust ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear goggles and face shield. DO NOT GET IN EYES. Other individuals working in the vicinity of the product where exposure can occur should be fitted with chemical splash goggles. Contaminated clothing should be properly laundered or disposed of in a manner that will not cause additional exposure. Workers should be strongly encouraged to follow good hygiene practices, such as thorough washing of hands, arms, neck and face. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep upright. Protect from light, including direct sunrays. Store in closed original container at temperatures between 5°C and 25°C. Store separated from: Oxidising material. Acids. Alkalis.

Storage Class

Miscellaneous hazardous material storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### 8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

When spraying use suitable air-supplied respirator.

Hand protection

Protective gloves and goggles must be used if there is a risk of direct contact or splash. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Wear full-face visor or shield. Other individuals working in the vicinity of the product where exposure could occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the material.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Personal protection

Unprotected persons should be kept away from treated areas.

Skin protection

Protection suit must be worn.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Viscous Colourless-pale yellow liquid.
Colour	Light (or pale). Yellow.
Odour	Amine. Irritating.

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Solubility	partially miscible with water
Initial boiling point and boiling range (°C)	205 760 mm Hg
Relative density	1.05 @20C
Vapour pressure	about 0.13 kPa @20C
Viscosity	<1 Pas @ 25C
Flash point (°C)	105 CC (Closed cup).

**9.2. Other information**

Volatile Organic Compound (VOC) 186(mixed product) g/litre

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not available.

Hazardous Polymerisation

Unknown.

**10.4. Conditions to avoid**

Not relevant

**10.5. Incompatible materials**

Materials To Avoid

Strong oxidising substances. Organic peroxides/hydroperoxides. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

**10.6. Hazardous decomposition products**

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Inhalation

Not relevant at normal room temperatures. When heated, corrosive vapours may be formed. Vapour from this chemical can be hazardous when inhaled.

Ingestion

Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Harmful in contact with skin. Causes burns.

Eye contact

Causes burns. Risk of serious damage to eyes.

Health Warnings

Preparation contains an epoxy resin, which may cause sensitisation and development of allergy. CNS depressant. May cause sensitisation by skin contact.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

**136/W225 - PROFLOOR PLUS CLEAR - HARDENER****Medical Symptoms**

High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

**Medical Considerations**

Skin disorders and allergies. Splash in eye requires examination by eye specialist.

**Specific effects**

Over exposure, especially during spraying without the necessary precautions, entails risk of concentration- dependant irritating effects on eyes, nose, throat and respiratory tract.

Toxicological information on ingredients.**BENZYL ALCOHOL (CAS: 100-51-6)**

Toxic Dose 1 - LD 50

1230 mg/kg (oral rat)

Toxic Dose 2 - LD 50

1360 mg/kg (oral-mouse)

**Trimethylhexamethylenediamin (CAS: 25620-58-0)**Acute toxicity:

Acute Toxicity (Oral LD50)

910 mg/kg Rat

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product contains a substance which may cause long term adverse effects in the environment.

**12.1. Toxicity****Acute Fish Toxicity**

Toxicity to bacteria, algae and higher marine organisms not tested. COD: Not determined

Ecological information on ingredients.**Trimethylhexamethylenediamin (CAS: 25620-58-0)**

Acute Toxicity - Fish

LC50 48 hours 172 mg/l *Leuciscus idus* (Golden orfe)

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

31.5

IC 50, 72 Hrs, Algae, mg/l

29.5

**12.2. Persistence and degradability****Degradability**

No data available.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil****Mobility:**

Not considered mobile.

**12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**136/W225 - PROFLOOR PLUS CLEAR - HARDENER****General information**

DO NOT reuse containers containing residual product without commercial cleaning. When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

**Waste Class**

Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

**SECTION 14: TRANSPORT INFORMATION**

General This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

**14.1. UN number**

UN No. (ADR/RID/ADN) 2735

UN No. (IMDG) 2735

**14.2. UN proper shipping name**

Proper Shipping Name (Polyamines, contains isophoronediamine, n, n-dimethylbenzylamine and trimethyl-1, 6-hexanediamine)

**14.3. Transport hazard class(es)**

ADR/RID/ADN Class 8

ADR/RID/ADN Class Class 8: Corrosive substances.

IMDG Class 8

Transport Labels

**14.4. Packing group**

ADR/RID/ADN Packing group III

IMDG Packing group III

**14.5. Environmental hazards****14.6. Special precautions for user**

Tunnel Restriction Code (E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.



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## Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

## Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

## Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

## EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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.

## National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

## General information

This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Do not split packs.

## Training Advice

This product is supplied for professional use only. It is recommended that all users of these materials should ensure that they are properly trained in the operation, use and working practices associated with this class of products. This may be in the form of supervised experience, manufacturers training or preferably nationally accredited training courses.

## Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Issued in accordance with REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Regulation (EC) 1907/2006 relating to 'For Professional Use Only' products.

Issued By	Technical Dept. (P.E.)
Revision Date	28/11/2016
Revision	2
Supersedes date	29/05/2015
SDS No.	11503
Safety Data Sheet Status	Approved.
Date	Date Printed .....
Signature	Initials .....

## Risk Phrases In Full

R34	Causes burns.
R35	Causes severe burns.
R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R22	Harmful if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### Hazard Statements In Full

H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

### 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.