



**SAFETY DATA SHEET**  
**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN**

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

**1.1. Product identifier**

Product name 135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN  
Product No. 135/W222/ - Hardener

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

Identified uses HARDENER FOR TWO COMPONENT FLOOR COATING

**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 Skin Sens. 1 - H317  
Environment Not classified.  
Classification (1999/45/EEC) R43.

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

**Human health**

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

**Physical and Chemical Hazards**

When handled correctly, undamaged units represent no danger.

**2.2. Label elements**

Contains 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE  
m-phenylenebis(methylamine)

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



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|  |          |  |
|--|----------|--|
| Signal Word                            | Warning  |  |
| Hazard Statements                      |          |  |
| Precautionary Statements               | H317     | May cause an allergic skin reaction.                                       |
| Supplementary Precautionary Statements | P102     | Keep out of reach of children.   |
|  | P101     | If medical advice is needed, have product container or label at hand.      |
|  | P280     | Wear protective gloves/protective clothing/eye protection/face protection. |
|  | P501A    | Dispose of contents/container to special waste collection point            |
| Supplemental label information         | P272     | Contaminated work clothing should not be allowed out of the workplace.     |
|  | P261     | Avoid breathing vapour/spray.  |
|  | P321     | Specific treatment (see medical advice on this label).                     |
|  | P302+352 | IF ON SKIN: Wash with plenty of soap and water.                            |
|  | P333+313 | If skin irritation or rash occurs: Get medical advice/attention.           |
|  | P363     | Wash contaminated clothing before reuse.                                   |
|  | EUH205   | Contains epoxy constituents. May produce an allergic reaction.             |

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

|  |  |
|--|--|
| 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE   | 1-5%   |
| CAS-No.: 2855-13-2   | EC No.: 220-666-8  |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H302<br>Acute Tox. 4 - H312<br>Skin Corr. 1B - H314<br>Skin Sens. 1 - H317<br>Aquatic Chronic 3 - H412 | Classification (67/548/EEC)<br>C;R34<br>Xn;R21/22<br>R43<br>R52/53 |
| m-phenylenebis(methylamine)  | 1-5%   |
| CAS-No.: 1477-55-0   | EC No.: 216-032-5<br>Registration Number: 01-2119480150-50         |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H302<br>Acute Tox. 3 - H331<br>Skin Corr. 1B - H314<br>Skin Sens. 1 - H317<br>Aquatic Chronic 3 - H412 | Classification (67/548/EEC)<br>Xn;R20/22.<br>C;R34.<br>R43,R52/53. |
| 3-(Polyoxyethylene)propylheptamethyltrisiloxane  | <1%  |
| CAS-No.: 67674-67-3  | EC No.:  |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H332<br>Eye Dam. 1 - H318<br>Aquatic Chronic 2 - H411  | Classification (67/548/EEC)<br>Xn;R20.<br>Xi;R41.<br>N;R51/53.     |

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

**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN****SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

## General information

General first aid, rest, warmth and fresh air. Do not give victim anything to drink if they are unconscious.

## Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

## Ingestion

Immediately rinse mouth and drink plenty of water. If person becomes uncomfortable or if ingested in large amounts (50-100 ml for an adult person): Take to hospital along with these instructions. Do not induce vomiting. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

## Skin contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

## Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring these instructions.

**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 recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

## Extinguishing media

This product is not flammable.

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

## Specific hazards

The product is non-combustible. If heated, harmful vapours may be formed.

**5.3. Advice for firefighters**

## Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Avoid breathing fire vapours.

## Protective equipment for fire-fighters

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

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Exclude non-essential personnel. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

**6.2. Environmental precautions**

Avoid discharge to the aquatic environment. 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**

Stop leak if possible without risk. Neutralise with dilute aqueous acid, such as acetic acid. Neutralisation reaction is exothermic. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer. For waste disposal, see section 13.

**6.4. Reference to other sections**

For personal protection, see section 8.

**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN****SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Persons with a history of skin sensitisation problems should not be employed in a situation where skin contact with this product could occur, nor should those with asthma or similar disorders be exposed to the vapour or spray mist. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

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

Keep upright. Store in tightly closed original container in a dry and cool place.

Storage Class

Chemical 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****3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)**

|              |             |       |                   |
|--------------|-------------|-------|-------------------|
| DNEL         |             |       |                   |
| Professional | Inhalation. | 20.1  | mg/m <sup>3</sup> |
| PNEC         |             |       |                   |
| Professional | Freshwater  | 0.06  | mg/l              |
| Professional | Marinewater | 0.006 | mg/l              |

**8.2. Exposure controls**

Protective equipment



Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided.

Hand protection

Use suitable protective gloves if risk of skin contact. Neoprene, nitrile, polyethylene or PVC. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact. Provide eyewash station.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|            |                |
|------------|----------------|
| Appearance | Viscous Liquid |
| Colour     | Yellowish      |

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|  |                            |
|--|----------------------------|
| Odour  | Ammonia.                   |
| Solubility                                   | Soluble in water.          |
| Initial boiling point and boiling range (°C) | >100 760 mm Hg             |
| Relative density                             | 1.10 @ 20 C                |
| Vapour pressure                              | 15 mm Hg @ 21 C            |
| pH-Value, Conc. Solution                     | 8.9                        |
| Viscosity                                    | 15000 - 25000 cP @ 25 C    |
| Flash point (°C)                             | above 100 CC (Closed cup). |
| Auto Ignition Temperature (°C)               | 150                        |

**9.2. Other information****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 determined.

**10.4. Conditions to avoid**

Avoid contact with acids and oxidising substances.

**10.5. Incompatible materials****10.6. Hazardous decomposition products**

In case of fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) may be formed.

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

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

**Ingestion**

Irritating. May cause nausea, stomach pain and vomiting.

**Skin contact**

Irritating to skin. Risk of sensitisation or allergic reactions among sensitive individuals.

**Eye contact**

Risk of serious damage to eyes. Irritating and may cause redness and pain.

**Route of entry**

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

Toxicological information on ingredients.

**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN****3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)**

Toxic Dose 1 - LD 50  
1030 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)  
1840 mg/kg Rat

**m-phenylenebis(methylamine) (CAS: 1477-55-0)**

Toxic Dose 1 - LD 50  
930 mg/kg (oral rat)  
Toxic Conc. - LC 50  
2.4 mg/l/4h (inh-rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)  
2000 mg/kg Rabbit

Aspiration hazard:

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Irritation of eyes and mucous membranes. Risk of serious damage to eyes.

**SECTION 12: ECOLOGICAL INFORMATION**

## Ecotoxicity

Dangerous for the environment if discharged into watercourses. The product contains a substance which may have adverse effects on waste water treatment processes. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

**12.1. Toxicity**Ecological information on ingredients.**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)**

LC50 96 hours 110 mg/l Brachydanio rerio (Zebra Fish)

EC 50, 48 Hrs, Daphnia, mg/l

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Acute Toxicity - Aquatic Plants

EC50 72 hours 50 mg/l Scenedesmus subspicatus

**m-phenylenebis(methylamine) (CAS: 1477-55-0)**

Acute Toxicity - Fish

LC50 96 hours > 100 mg/l Brachydanio rerio (Zebra Fish)

LC50 96 hours > 100 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 16 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 72 hours 12 mg/l Scenedesmus subspicatus

**12.2. Persistence and degradability**

## Degradability

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential**

## Bioaccumulative potential

No data available on bioaccumulation.

**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN**Ecological information on ingredients.**m-phenylenebis(methylamine) (CAS: 1477-55-0)**

Bioaccumulation factor

BCF 2.69134803

Partition coefficient

log Pow 0.18

**12.4. Mobility in soil**

Mobility:

The product is partly miscible with water and may spread in the aquatic environment.

**12.5. Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

Not determined.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

Do not allow to enter drains, sewers or watercourses. Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground.

Environmental manager must be informed of all major spillages.

Waste Class

When this material, in its liquid state, as supplied, becomes a waste, it is categorised as a hazardous waste, with code 08 01 11\* (EPOXY BASED LIQUID WASTE). Part-used containers, not drained and/or rigorously scraped out and containing residues of the supplied material, are categorised as hazardous waste, with code 08 01 11\* (EPOXY BASED LIQUID WASTE). Neutralised empty packages, are categorised as non-hazardous waste, with code 15 01 02(plastic packaging) or 15 01 04 (metal packaging)

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

Sea Transport Notes

Not classified.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Proper Shipping Name

PAINT

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

ADR/RID/ADN Class

Not classified for transportation.

IMDG Class

not classified

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

No.

**135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN****14.6. Special precautions for user**

Not applicable.

**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.

## 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**

## 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 Update for CLP labelling.

Issued By Technical Dept. (P.E.)

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Date Date printed \_\_\_\_\_

Signature Initials \_\_\_\_\_

## Risk Phrases In Full

|        |   |
|--------|---|
| R34    | Causes burns.   |
| R20/22 | Harmful by inhalation and if swallowed.   |
| R20    | Harmful by inhalation.  |
| 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. |
| R43    | May cause sensitisation by skin contact.  |
| R41    | Risk of serious damage to eyes.   |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.   |



## 135/W222 - PROFLOOR HARDENERS - ALL EXCEPT GREEN

### Hazard Statements In Full

|      |  |
|------|--|
| H318 | Causes serious eye damage.                         |
| H314 | Causes severe skin burns and eye damage.           |
| 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.               |
| H331 | Toxic if inhaled.                                  |
| 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.