



SAFETY DATA SHEET

131/W221 - PROFLOOR HIGH PERFORMANCE WB PRIMER - HARDENER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name 131/W221 - PROFLOOR HIGH PERFORMANCE WB PRIMER - HARDENER

Product number 131/W221/1 - HARDENER

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

Identified uses HARDENER FOR TWO COMPONENT PRIMER

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

Emergency telephone +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 hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

Human health The product contains a small amount of sensitising substance. May cause skin sensitisation or allergic reactions in sensitive individuals.

Physicochemical When handled correctly, undamaged units represent no danger.

2.2. Label elements

Precautionary statements EUH205 Contains epoxy constituents. May produce an allergic reaction.
EUH208 Contains . May produce an allergic reaction.

Contains 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Barium Sulphate		10-30%
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01-2119491274-35-0001
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
Calcium Magnesium Silicate		10-30%
CAS number: 14807-96-6	EC number: 238-877-9	
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -	
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE		<1%
CAS number: 2855-13-2	EC number: 220-666-8	
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) C;R34 Xn;R21/22 R43 R52/53	
m-phenylenebis(methylamine)		<1%
CAS number: 1477-55-0	EC number: 216-032-5	REACH registration number: 01-2119480150-50
Classification Acute Tox. 4 - H302 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC or 1999/45/EC) Xn;R20/22. C;R34. R43,R52/53.	

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 affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Place unconscious person on their 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. Never give anything by mouth to an unconscious person. Do not induce vomiting. Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel.

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Skin contact It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Remove contaminated clothing. Continue to rinse for at least 15 minutes. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

General information Get medical attention promptly if symptoms occur after washing.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases or vapours. Fire creates: Thermal decomposition or combustion products may include the following substances: Acrid smoke or fumes. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

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Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect spillage with a shovel and broom, or similar and reuse, if possible. Place in metal containers for recovery or disposal. or Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Large Spillages: Recover spilled material with a vacuum truck.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions 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

Storage precautions Keep container tightly closed. Keep containers upright. Protect from light. Store in closed original container at temperatures between 5°C and 25°C. Store away from the following materials: Oxidising materials. Acids. Alkalis.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

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

Occupational exposure limits

Barium Sulphate

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust

Calcium Magnesium Silicate

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Silicon dioxide

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ resp.dust

Short-term exposure limit (15-minute): WEL 6 mg/m³ total dust

WEL = Workplace Exposure Limit

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

DNEL Professional - Inhalation; : 20.1 mg/m³

PNEC Professional - Fresh water; 0.06 mg/l
Professional - Marine water; 0.006 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Personal protection

Unprotected persons should be kept away from treated areas.

Eye/face protection

Wear chemical splash goggles. The following protection should be worn: 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.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear chemical protective suit.

Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash contaminated clothing before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

When spraying, wear a suitable supplied-air respirator.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid. Liquid
Colour	White / off-white.
Odour	Ammonia.
pH	pH (concentrated solution): 8.9
Initial boiling point and range	>100°C @ 760 mm Hg
Flash point	above 100°C CC (Closed cup).
Vapour pressure	15 mm Hg @ °C
Relative density	1.30 @ @ 20 C°C
Solubility(ies)	Soluble in water.
Auto-ignition temperature	150°C

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 0 g/litre.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Not relevant.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Tests with rats and rabbits to determine ocular toxicity resulted in deaths in both species at a level of 70% active ingredient. Animals died within one hour after material was placed in the eye and before eye irritation could be scored. Additional tests showed that flushing the eye within 30 seconds was not effective in preventing animal deaths. Severe irritation to the eyes of a rabbit. Non irritant to the skin of a rabbit. No delayed, subchronic or chronic test data are known.

Inhalation No significant hazard at normal ambient temperatures. Heating may generate the following products: Harmful gases or vapours. Vapour from this product may be hazardous by inhalation. Vapours may irritate throat/respiratory system. A single exposure may cause the following adverse effects: Coughing. Difficulty in breathing.

Ingestion Harmful if swallowed.

Skin contact May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact Risk of serious damage to eyes.

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

Route of entry Inhalation Skin absorption. Ingestion. Skin and/or eye contact.

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

Toxicological information

Barium Sulphate

Acute toxicity - oral

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Acute toxicity oral (LD₅₀ mg/kg) 15,000.0

Species Rat

ATE oral (mg/kg) 15,000.0

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 1,840.0

Species Rat

m-phenylenebis(methylamine)**Acute toxicity - dermal**

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

Skin contact Irritating to skin. May cause sensitisation by skin contact.

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

SECTION 12: Ecological Information

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

12.1. Toxicity**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

Acute toxicity - fish LC₅₀, 96 hours: 110 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 23 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 50 mg/l, Scenedesmus subspicatus

m-phenylenebis(methylamine)

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
IC₅₀, 72 hours: mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

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Bioaccumulative potential No data available on bioaccumulation.

m-phenylenebis(methylamine)

Bioaccumulative potential BCF: 2.69134803,

Partition coefficient log Pow: 0.18

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

When handling waste, the safety precautions applying to handling of the product should be considered. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste material and any included combustible absorbent and containers should be suitable for incineration at an approved facility.

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

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

14.1. UN number

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT PRODUCT

Proper shipping name (IMDG) PAINT PRODUCT

Proper shipping name (ICAO) PAINT PRODUCT

Proper shipping name (ADN) PAINT PRODUCT

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
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) (as amended). 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 (as amended).
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

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 Revisions to Sections (2),(3),(8),(15), and (16) - re-classification of resin components.
Issued by	Technical Dept. (P.E.)
Revision date	23/01/2015
Revision	6
Supersedes date	19/11/2013
SDS number	10807
SDS status	Approved.
Signature	Initials
Risk phrases in full	Not classified. R20/22 Harmful by inhalation and if swallowed. R21/22 Harmful in contact with skin and if swallowed. R34 Causes burns. R43 May cause sensitisation by skin contact. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Hazard statements in full

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.

H331 Toxic if inhaled.

H412 Harmful to aquatic life with long lasting effects.

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.