



SAFETY DATA SHEET
PROFLOOR PLUS - HARDENER

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME PROFLOOR PLUS - HARDENER
PRODUCT NO. 136/Q225/- HARDENER
APPLICATION HARDENER FOR TWO COMPONENT FLOOR COATING
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2 HAZARDS IDENTIFICATION

Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R20/21/22. C;R34. R43. R52/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
BENZYL ALCOHOL	202-859-9	100-51-6	30-60%	Xn;R20/22
Bisphenol A Epoxy Resin		80-05-7	5-10%	Xi;R36/37/38. R43.
ISOPHORONEDIAMINE	220-666-8	2855-13-2	30-60%	C;R34 Xn;R21/22 R43 R52/53
m-phenylenebis(methylamine)		1477-55-0	5-10%	Xn;R22. C;R34.
Salicylic acid		69-72-7	1-5%	Xn;R22. Xi;R37/38,R41.

The Full Text for all R-Phrases are Displayed in Section 16

4 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. 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!

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.

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5 FIRE-FIGHTING MEASURES

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.

SPECIAL FIRE FIGHTING PROCEDURES

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

SPECIFIC HAZARDS

By heating and fire, toxic vapours/gases may be formed. Fire creates: Acrid smoke/fumes of : Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

PROTECTIVE MEASURES IN FIRE

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

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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.

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.

SPILL CLEAN UP METHODS

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.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Read and follow manufacturer's recommendations. Persons susceptible for 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.

STORAGE PRECAUTIONS

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. Alkalies.

STORAGE CLASS

Miscellaneous hazardous material storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

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

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ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace 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 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.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous Colourless-pale yellow liquid		
COLOUR	Light (or pale) Yellow		
ODOUR	Amine. Irritating.		
SOLUBILITY	partially miscible with water		
BOILING POINT (°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).		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Not relevant.

HAZARDOUS POLYMERISATION

Will not occur

MATERIALS TO AVOID

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

HAZARDOUS DECOMPOSITION PRODUCTS

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

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50	Benzyl alcohol=1230 mg/kg (oral rat)
TOXIC DOSE 2 - LD 50	m-phenylenebis(methylamine)=1040 mg/kg (oral rat)

TOXICOLOGICAL INFORMATION

The amine/diamine constituents of this product are corrosive to skin and irritant to eyes, and may cause sensitisation.

INHALATION

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

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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.

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.

12 ECOLOGICAL INFORMATION

ECOTOXICITY

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

MOBILITY

Not determined

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

No data available.

ACUTE FISH TOXICITY

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

13 DISPOSAL CONSIDERATIONS

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.

DISPOSAL 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.

14 TRANSPORT INFORMATION

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UK ROAD CLASS	8		
PROPER SHIPPING NAME	Corrosive liquid NOS		
PROPER SHIPPING NAME	(Polyamines, contains isophoronediamine and m-phenylenebis(methylamine))		
UN NO. ROAD	2735	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	RID CLASS NO.	8
RID PACK GROUP	III	UN NO. SEA	2735
IMDG CLASS	8	IMDG PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Corrosive



Harmful

CONTAINS

BENZYL ALCOHOL
Bisphenol A Epoxy Resin
ISOPHORONEDIAMINE
m-phenylenebis(methylamine)

RISK PHRASES

R20/21/22	Harmful by inhalation, 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.

SAFETY PHRASES

S13	Keep away from food, drink and animal feeding stuffs.
S20	When using do not eat or drink.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27/28	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of .. (to be specified by the manufacturer)
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
S56	Dispose of this material and its container to hazardous or special waste collection point.
S64	If swallowed, rinse mouth with water (only if the person is conscious).
P5	Contains epoxy constituents. See information supplied by the manufacturer.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations. The Control of Substances Hazardous to Health Regulations 1988. Health and Safety at Work Act 1974.

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ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Rivers (Prevention of Pollution) Act 1961.

EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. 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).

NATIONAL REGULATIONS

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40) Health and Safety at Work Act (As Amended) 1974 Control of Substances Hazardous to Health Regulations 2002 (as amended) The Manual Handling Operations Regulations 1992 [SI 1992:2793] Dangerous Substances and Explosive Atmospheres Regulations 2002 [SI 2002: 2776]

16 OTHER INFORMATION

REVISION COMMENTS

Corrections to Section 14, Transport Information

ISSUED BY

Technical Dept. (P.E.)

REVISION DATE 31/07/2008

REV. NO./REPL. SDS GENERATED 2

SDS NO. 11018

SAFETY DATA SHEET STATUS

Approved.

DATE Date Printed

SIGNATURE Initials

RISK PHRASES IN FULL

- R20/22 Harmful by inhalation and if swallowed.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R37/38 Irritating to respiratory system and skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.