SAFETY DATA SHEET
FLOOR PATCH HARDENER

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

1.1. Product identifier
Product name  FLOOR PATCH HARDENER
Product number X0034

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

1.3. Details of the supplier of the safety data sheet
Supplier  ITW Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number
Emergency telephone  +44(0)1235 239 670 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards  Not Classified
Health hazards  Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 2 - H361f STOT SE 3 - H335
Environmental hazards  Not Classified

2.2. Label elements
Pictogram
Signal word  Danger
Hazard statements  H302+H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
FLOOR PATCH HARDENER

Precautionary statements

P261 Avoid breathing vapour/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

Contains

DIETHYLENETRIAMINE, 4,4'-ISOPROPYLDIENEDIPHENOL

Supplementary precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>DIETHYLENETRIAMINE</th>
<th>60-100%</th>
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<tbody>
<tr>
<td>CAS number: 111-40-0</td>
<td>EC number: 203-865-4</td>
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<tr>
<td></td>
<td>REACH registration number: 01-2119473793-27-0000</td>
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<table>
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<tr>
<td>Skin Corr. 1B - H314</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
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</table>
FLOOR PATCH HARDENER

4,4'-ISOPROPYLDENEDI Phenol 30-60%
CAS number: 80-05-7  EC number: 201-245-8
REACH registration number: 01-2119457856-23-0000

Classification
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Repr. 2 - H361f
STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on the side in the recovery position and ensure breathing can take place.

Inhalation
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion
This product is corrosive. Do not induce vomiting. Give plenty of water to drink. Get medical attention. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

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

General information
The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

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
Extinguish with the following media: Carbon dioxide (CO2). Water spray, fog or mist. Dry chemicals, sand, dolomite etc. Alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards
Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m³.

5.3. Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Control run-off water by containing and keeping it out of sewers and watercourses.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

**Environmental precautions**
Avoid or minimise the creation of any environmental contamination. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**
Absorb spillage with sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

**Reference to other sections**
Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

**Usage precautions**
Use only in well-ventilated areas. Avoid contact with skin and eyes. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions**
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

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**

**DIETHYLENETRIAMINE**
Long-term exposure limit (8-hour TWA): WEL 1 ppm(Sk)  4.3 mg/m3(Sk)
Short-term exposure limit (15-minute):  WEL
WEL = Workplace Exposure Limit

**Ingredient comments**
WEL = Workplace Exposure Limits

8.2. Exposure controls

**Protective equipment**

**Appropriate engineering controls**
Provide adequate general and local exhaust ventilation.

**Eye/face protection**
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.
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Hand protection
Use protective gloves. It is recommended that gloves are made of the following material: Butyl rubber. It is recommended that gloves are made of the following material: Neoprene. It is recommended that gloves are made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection
Avoid contact with skin. Wear chemical protective suit.

Hygiene measures
Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product. Change work clothing daily before leaving workplace.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Wear a respirator fitted with the following cartridge: Gas filter, type A2. Check that the respirator fits tightly and the filter is changed regularly. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance
Liquid.

Colour
Amber.

Odour
Ammonia.

pH
pH (concentrated solution): >7

Initial boiling point and range
>200°C @

Flash point
102.78°C

Vapour pressure
<0.10 mmHg @ °C

Relative density
1.03 @ 20 °C

Solubility(ies)
Slightly soluble in water.

9.2. Other information
Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
Acids. Strong oxidising agents.

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 available.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.
FLOOR PATCH HARDENER

10.5. Incompatible materials
Materials to avoid Avoid contact with the following materials: Acids. Oxidising agents.

10.6. Hazardous decomposition products
Hazardous decomposition products Fire or high temperatures create: Nitrous gases (NOx). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Vapours/gases/fumes of: Ammonia or amines. Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
ATE oral (mg/kg) 769.23

Acute toxicity - dermal
ATE dermal (mg/kg) 1,692.31

Inhalation May cause sensitisation by inhalation.

Ingestion Harmful if swallowed.

Skin contact Irritating to skin. Harmful in contact with skin. May cause sensitisation by skin contact.

Eye contact May cause severe eye irritation.

Acute and chronic health hazards Causes burns.

SECTION 12: Ecological Information

Ecotoxicity Avoid release to the environment.

12.1. Toxicity
Toxicity Not considered toxic to fish.

12.2. Persistence and degradability
Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential
Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil
Mobility Do not discharge into drains or watercourses or onto the ground.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects
Other adverse effects Not available.

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.
**FLOOR PATCH HARDENER**

**Disposal methods**
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Waste class**
08 04 99

<table>
<thead>
<tr>
<th>SECTION 14: Transport information</th>
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<tbody>
<tr>
<td>General</td>
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<tr>
<td>No other information known.</td>
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</table>

**14.1. UN number**
- UN No. (ADR/RID) 2735
- UN No. (IMDG) 2735
- UN No. (ICAO) 2735

**14.2. UN proper shipping name**
- Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE, N.O.S or POLYAMINES, LIQUID, CORROSIVE, N.O.S
- Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S or POLYAMINES, LIQUID, CORROSIVE, N.O.S
- Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S or POLYAMINES, LIQUID, CORROSIVE, N.O.S

**14.3. Transport hazard class(es)**
- ADR/RID class 8
- ADR/RID label 8
- IMDG class 8
- ICAO class/division 8

**Transport labels**

**14.4. Packing group**
- ADR/RID packing group III
- IMDG packing group III
- ICAO packing group III

**14.5. Environmental hazards**
Environmentally hazardous substance/marine pollutant No.

**14.6. Special precautions for user**
- EmS F-A, S-B
- Emergency Action Code 2X
- Hazard Identification Number (ADR/RID) 80

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**
FLOOR PATCH HARDENER

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information required.

SECTION 15: Regulatory information

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

EU legislation


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 03/04/2018
Revision 10
Supersedes date 28/04/2016

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.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.

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.