

Safety Data Sheet



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

1.1. Product identifier

Product name: MP000430 HARDENER

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Premier Farnell

150 Armley Road

Leeds

LS12 2QQ

United Kingdom

Tel: + 44 (0) 870 129 8608

Fax: + 44 (0) 870 129 8611

Email: information@premierfarnell.com

1.4. Emergency telephone number

Emergency tel: + 44 (0) 870 120 2530

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317; Carc. 2: H351; STOT RE 2: H373; STOT SE 3: H335

Most important adverse effects: Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer ([inhalation]). May cause damage to organs ([respiratory system]) through prolonged or repeated exposure ([inhalation (dust/mist)]). May cause respiratory irritation.

2.2. Label elements

Label elements:

Hazard statements: H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H351: Suspected of causing cancer ([inhalation]).

H373: May cause damage to organs ([respiratory system]) through prolonged or repeated exposure ([inhalation (dust/mist)]).

H335: May cause respiratory irritation.

Hazard pictograms: GHS07: Exclamation mark

GHS08: Health hazard



Signal words: Danger

Precautionary statements: P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe mist.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P302+P352: IF ON SKIN: Wash with plenty of water.

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.

Haz. ingredients (label): DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER - REACH registered number(s): 01-2119457013-49-XXXX

| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
|-----------|------------|-----------|---|---------|
| 500-040-3 | 25686-28-6 | - | Acute Tox. 4: H332; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Sens. 1: H317; Carc. 2: H351; STOT SE 3: H335; STOT RE 2: H373 | >90% |

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. If irritation occurs or persists, seek medical attention. Transfer to hospital if necessary.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be a feeling of tightness in the chest with shortness of breath. Potential potent asthmagen.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Alert the neighbourhood to the presence of fumes or gas.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air. Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

Workplace exposure limits:

Respirable dust

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|------------------------|------------------------|------------|--------------|
| UK | 0.02 mg/m ³ | 0.07 mg/m ³ | - | - |

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Brown

Odour: Characteristic odour

Solubility in water: Reacts with water.

Flash point°C: >100

Relative density: 1.22

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases. Water. Alcohols. Amines.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE HOMOPOLYMER

| | | | | |
|-----------|-----|---------|------|------|
| DUST/MIST | RAT | 4H LC50 | 0.49 | mg/l |
|-----------|-----|---------|------|------|

Relevant hazards for product:

| Hazard | Route | Basis |
|--------------------------------|---------|-----------------------|
| Acute toxicity (ac. tox. 4) | INH | Hazardous: calculated |
| Skin corrosion/irritation | DRM | Hazardous: calculated |
| Serious eye damage/irritation | OPT | Hazardous: calculated |
| Respiratory/skin sensitisation | INH DRM | Hazardous: calculated |
| Carcinogenicity | -- | Hazardous: calculated |
| STOT-single exposure | INH | Hazardous: calculated |
| STOT-repeated exposure | - | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. May cause sensitisation in susceptible individuals.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: Exposure may cause coughing or wheezing. There may be a feeling of tightness in the chest with shortness of breath. Potential potent asthmagen.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Reacts with water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 05 01

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer ([inhalation]).
H373: May cause damage to organs ([lungs]) through prolonged or repeated exposure ([inhalation (vapour)]).
H373: May cause damage to organs ([respiratory system]) through prolonged or repeated exposure ([inhalation (dust/mist)]).

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

1.1. Product identifier

Product name: MP000430 RESIN

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

Use of substance / mixture: PC1: Adhesives, sealants.

1.3. Details of the supplier of the safety data sheet

Company name: Premier Farnell
150 Armley Road
Leeds
LS12 2QQ
United Kingdom

Tel: + 44 (0) 870 129 8608

Fax: + 44 (0) 870 129 8611

Email: information@premierfarnell.com

1.4. Emergency telephone number

Emergency tel: + 44 (0) 870 120 2530
(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Safety Data Sheet

Classification under CLP: Eye Dam. 1: H318

Most important adverse effects: Causes serious eye damage.

2.2. Label elements

Label elements:

Hazard statements: H318: Causes serious eye damage.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call doctor.

Haz. ingredients (label): LIMESTONE; 2-ETHYLHEXANE-1,3-DIOL; KAOLIN; ZEOLITES

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

LIMESTONE

| EINECS | CAS | PBT / WEL | CLP Classification | Percent |
|-----------|-----------|--|--------------------|---------|
| 215-279-3 | 1317-65-3 | Substance with a Community workplace exposure limit. | - | 10-30% |

2-ETHYLHEXANE-1,3-DIOL

| | | | | |
|-----------|---------|---|------------------|-------|
| 202-377-9 | 94-96-2 | - | Eye Dam. 1: H318 | 1-10% |
|-----------|---------|---|------------------|-------|

KAOLIN

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| 310-194-1 | 1332-58-7 | Substance with a Community workplace exposure limit. | - | 1-10% |
|-----------|-----------|--|---|-------|

ZEOLITES

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|-----------|-----------|--|---|-------|
| 215-283-8 | 1318-02-1 | Substance with a Community workplace exposure limit. | - | 1-10% |
|-----------|-----------|--|---|-------|

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Safety Data Sheet

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.
Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC1: Adhesives, sealants.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

LIMESTONE

Workplace exposure limits: **Respirable dust**

| State | 8 hour TWA | 15 min. STEL | 8 hour TWA | 15 min. STEL |
|-------|------------|--------------|------------|--------------|
| UK | 10 mg/m3 | 4 mg/m3 | - | - |

KAOLIN

| | | | | |
|----|---------|---|---|---|
| UK | 2 mg/m3 | - | - | - |
|----|---------|---|---|---|

ZEOLITES

| | | | | |
|----|----------|---|---------|---|
| UK | 10 mg/m3 | - | 4 mg/m3 | - |
|----|----------|---|---------|---|

DNEL/PNEC Values

Hazardous ingredients:

LIMESTONE

| Type | Exposure | Value | Population | Effect |
|------|------------|----------|------------|----------|
| DNEL | Inhalation | 10 mg/m3 | Workers | Systemic |

2-ETHYLHEXANE-1,3-DIOL

| Type | Exposure | Value | Population | Effect |
|------|------------------------------------|-------------|------------|----------|
| DNEL | Dermal | 76.3 mg/m3 | Workers | Systemic |
| DNEL | Dermal | 228.9 mg/m3 | Workers | Systemic |
| PNEC | Fresh water | 100 ug/L | - | - |
| PNEC | Marine water | 10 ug/L | - | - |
| PNEC | Microorganisms in sewage treatment | 3 mg/L | - | - |
| PNEC | Fresh water sediments | 1.6 mg/kg | - | - |
| PNEC | Marine sediments | 160 ug/kg | - | - |

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| | | | | |
|------|---------------------|-----------|---|---|
| PNEC | Soil (agricultural) | 170 ug/kg | - | - |
| PNEC | Food chain | 3.3 mg/kg | - | - |

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Black

Odour: Barely perceptible odour

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

LIMESTONE

| | | | | |
|-----------|-----|---------|-------|-------|
| DERMAL | RAT | LD50 | >2000 | mg/kg |
| DUST/MIST | RAT | 4H LC50 | >3 | mg/l |
| ORAL | RAT | LD50 | >2000 | mg/kg |

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2-ETHYLHEXANE-1,3-DIOL

| | | | | |
|--------|-----|------|------|-------|
| DERMAL | RBT | LD50 | 2000 | mg/kg |
| ORAL | RAT | LD50 | 1400 | mg/kg |

KAOLIN

| | | | | |
|--------|-----|------|-------|-------|
| DERMAL | RAT | LD50 | >5000 | mg/kg |
| ORAL | RAT | LD50 | >5000 | mg/kg |

Relevant hazards for product:

| Hazard | Route | Basis |
|-------------------------------|-------|-----------------------|
| Serious eye damage/irritation | OPT | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:

LIMESTONE

| | | | |
|-------------------------------------|-----------|------|------|
| Daphnia magna | 48H EC50 | >100 | mg/l |
| RAINBOW TROUT (Oncorhynchus mykiss) | 96H LC50 | >100 | mg/l |
| Scenedesmus Subspicatus | 72H ErC50 | >14 | mg/l |

2-ETHYLHEXANE-1,3-DIOL

| | | | |
|---------------------------------------|-----------|------|------|
| CHANNEL CATFISH (Ictalurus punctatus) | 96H LC50 | 624 | mg/l |
| Daphnia magna | 48H EC50 | >100 | mg/l |
| Scenedesmus Subspicatus | 72H ErC50 | >100 | mg/l |

ZEOLITES

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|---------------|----------|-------|------|
| Daphnia magna | 48H EC50 | >1400 | mg/l |
| FISH | 96H LC50 | >680 | mg/l |

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H318: Causes serious eye damage.

Part Number

MP000430

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