

# SAFETY DATA SHEET

according to Regulation (EU) 2020/878

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# **Highways PM04 Powder Component**

Revision 14

Revision date 2023-09-27

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

## 1.1. Product identifier

| Product name                    |
|---------------------------------|
| Other means of identification / |
| LIFI                            |

Highways PM04 Powder Component

UFI: A3FJ-MMC7-HA96-DUDV.

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

| Product Use | [SU22] Professional uses: Public domain (administration, education, entertainment, services, |
|-------------|----------------------------------------------------------------------------------------------|
|             | craftsmen); [SU19] Building and construction work; [PC0] Other; [PROC19] Hand-mixing with    |
|             | intimate contact and only PPE available: IERC3I Formulation in materials:                    |

## 1.3. Details of the supplier of the safety data sheet

| Company |
|---------|
|---------|

Larsen Building Products Ltd

Address

4 West Bank Road

Belfast Harbour Industrial Estate

Belfast BT3 9JL

United Kingdom

Web www.larsenbuildingproducts.com

**Telephone** +44 (0)28 9077 4000 **Fax** +44 (0)28 9077 6945

Email I.pyper@larsenbuildingproducts.com

## 1.4. Emergency telephone number

## Emergency telephone number

(00353) 01 809 2166

Company

National Poisons Centre of Ireland

8am-10pm 7 days a week

## **Further information**

Intended use

This product is intended for use as in the installations, bedding or grouting of paving for highways or pavements.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| 2.1.2. | Classification | - | EC |
|--------|----------------|---|----|
| 1272/2 | 2008           |   |    |

Repr. 1B: H360;

### 2.2. Label elements

## Hazard pictograms



Signal Word

Danger

Hazard Statement Repr. 1B: H360 - May damage fertility or the unborn child.

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#### 2.2. Label elements

| Precautionary Statement:<br>Prevention | P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary Statement:<br>Response   | P308+P313 - IF exposed or concerned: Get medical advice/attention.                                                                                                                                                |
| Precautionary Statement:<br>Storage    | P405 - Store locked up.                                                                                                                                                                                           |
| Precautionary Statement:<br>Disposal   | P501 - Dispose of contents/container to licensed waste disposal site                                                                                                                                              |

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

#### EC 1272/2008

| Chemical Name                         | Index No.    | CAS No.    | EC No.    | REACH Registration<br>Number | Conc.<br>(%w/w) | Classification                                                     |
|---------------------------------------|--------------|------------|-----------|------------------------------|-----------------|--------------------------------------------------------------------|
| Silica Sand (<1% Respirable Quartz)   |              | 14808-60-7 | 238-878-4 |                              | 90 - 100%       |                                                                    |
| Dicyclohexyl phthalate                |              | 84-61-7    | 201-545-9 |                              | 0 - 0.5%        | Skin Sens. 1: H317; Repr.<br>1B: H360; Aquatic Chronic 3:<br>H412; |
| Benzoyl peroxide (Dibenzoyl peroxide) | 617-008-00-0 | 94-36-0    | 202-327-6 |                              | 0 - 0.5%        | Org. Perox. B: H241; Eye<br>Irrit. 2: H319; Skin Sens. 1:<br>H317; |

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

| Inhalation   | Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact  | Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.                                   |
| Skin contact | Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.                                 |
| Ingestion    | Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.                                                                      |

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Carbon oxides. Conatins peroxide - Oxidising Agent - may intensify fire.

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

Burning produces irritating, toxic and obnoxious fumes.

# 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Ensure adequate ventilation of the working area. Wear suitable protective equipment.

## 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

## 6.3. Methods and material for containment and cleaning up

Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly

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## 6.3. Methods and material for containment and cleaning up

with plenty of water.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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

Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

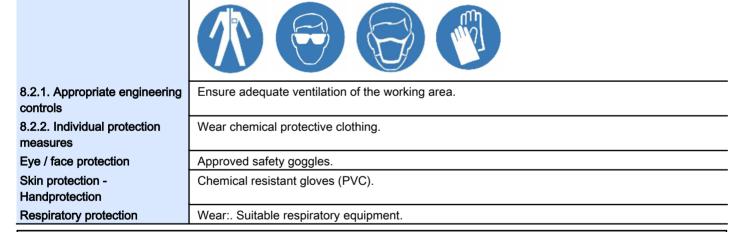
## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Exposure Limit Values

| Silica Sand (<1% Respirable | WEL 8-hr limit ppm:           | WEL 8-hr limit mg/m3: 0.1    |
|-----------------------------|-------------------------------|------------------------------|
| Quartz)                     |                               |                              |
|                             | WEL 15 min limit ppm:         | WEL 15 min limit mg/m3:      |
|                             | WEL 8-hr limit mg/m3 total 10 | WEL 15 min limit mg/m3 total |
|                             | inhalable dust:               | inhalable dust:              |
|                             | WEL 8-hr limit mg/m3 total 4  | WEL 15 min limit mg/m3 total |
|                             | respirable dust:              | respirable dust:             |

### 8.2. Exposure controls



## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties



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## 9.1. Information on basic physical and chemical properties

| Appearance                | Powder             |
|---------------------------|--------------------|
| Colour                    | Various            |
| Odour                     | Characteristic     |
| pH                        | Not applicable.    |
| Melting point             | Not applicable.    |
| Freezing Point            | Not applicable.    |
| Initial boiling point     | Not applicable.    |
| Flash point               | Not applicable.    |
| Upper Explosive Limit     | Not applicable.    |
| Lower Explosive Limit     | Not applicable.    |
| Vapour pressure           | Not applicable.    |
| Relative Vapour Density   | Not applicable.    |
| Partition coefficient     | Not applicable.    |
| (n-octanol/water)         |                    |
| Autoignition temperature  | Not applicable.    |
| Decomposition temperature | Not applicable.    |
| Viscosity                 | Not applicable.    |
| Solubility                | Insoluble in water |

#### 9.2. Other information

| Bulk Density          | ≈ 2 g/cm³      |
|-----------------------|----------------|
| VOC (Volatile organic | Not determined |
| compounds)            |                |

### **Further information**

Further information on the physical and chemical properties is not available as the main component is an inert, non hazardous substance.

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Avoid contact with: Strong bases, Strong acids.

### 10.2. Chemical stability

Stable under normal conditions.

# 10.4. Conditions to avoid

Avoid sparks, flames, heat and sources of ignition.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes

| Acute toxicity                | May cause sensitisation by skin contact.                                           |
|-------------------------------|------------------------------------------------------------------------------------|
| Skin corrosion/irritation     | Not classified (Based on available data, the classification criteria are not met). |
| Serious eye damage/irritation | Not classified (Based on available data, the classification criteria are not met). |
| Respiratory or skin           | May cause sensitisation by skin contact.                                           |
| sensitisation                 |                                                                                    |
| Germ cell mutagenicity        | Not classified (Based on available data, the classification criteria are not met). |
| Carcinogenicity               | Not classified (Based on available data, the classification criteria are not met). |
| Reproductive toxicity         | May cause harm to the unborn child. May impair fertility.                          |
| STOT-single exposure          | Not classified (Based on available data, the classification criteria are not met). |
| STOT-repeated exposure        | Not classified (Based on available data, the classification criteria are not met). |
| Aspiration hazard             | Not classified (Based on available data, the classification criteria are not met). |

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| 11.1 Information on hazard clas   | ses                                                                                |  |  |  |  |  |
|-----------------------------------|------------------------------------------------------------------------------------|--|--|--|--|--|
| Repeated or prolonged exposure    | Not classified (Based on available data, the classification criteria are not met). |  |  |  |  |  |
| 11.1.4. Toxicological Information | n                                                                                  |  |  |  |  |  |
|                                   | No data available                                                                  |  |  |  |  |  |
| SECTION 12: Ecological infe       | ormation                                                                           |  |  |  |  |  |
| 12.1. Toxicity                    |                                                                                    |  |  |  |  |  |
|                                   | No data available                                                                  |  |  |  |  |  |
| SECTION 13: Disposal cons         | siderations                                                                        |  |  |  |  |  |
| General information               |                                                                                    |  |  |  |  |  |
|                                   | Dispose of in compliance with all local and national regulations.                  |  |  |  |  |  |
| SECTION 14: Transport info        | rmation                                                                            |  |  |  |  |  |
| 14.1. UN number                   |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.2. UN proper shipping name     |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.3. Transport hazard class(es   |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.4. Packing group               | <del>-</del>                                                                       |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.5. Environmental hazards       |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.6. Special precautions for us  | er<br>T                                                                            |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| 14.7 Maritime Transport in bulk   |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |
| Further information               |                                                                                    |  |  |  |  |  |
|                                   | The product is not classified as dangerous for carriage.                           |  |  |  |  |  |

SECTION 15: Regulatory information

| Other | ' inf∩rr | nation |
|-------|----------|--------|

| Other information                      |                                                                                                                                                                                                                                                                                                                         |  |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Revision                               | This document differs from the previous version in the following areas:.  1 - Other means of identification / UFI.  1 - UFI No.                                                                                                                                                                                         |  |  |
| Text of Hazard Statements in Section 3 | Skin Sens. 1: H317 - May cause an allergic skin reaction.  Repr. 1B: H360 - May damage fertility or the unborn child .  Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  Org. Perox. B: H241 - Heating may cause a fire or explosion.  Eye Irrit. 2: H319 - Causes serious eye irritation. |  |  |
| Further information                    |                                                                                                                                                                                                                                                                                                                         |  |  |
|                                        | The information supplied in this Safety Data Sheet is designed only as guidance for the safe use,                                                                                                                                                                                                                       |  |  |

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| Further information |                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                     | storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process. |



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# **Highways PM04 Resin Solution**

**Revision** 13

Revision date 2023-09-27

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

## 1.1. Product identifier

| Product name                    |
|---------------------------------|
| Other means of identification / |
| LIFI                            |

Highways PM04 Resin Solution
UFI: 4E1W-5FTQ-N99C-5WDT.

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

| Product Use | [SU22] Professional uses: Public domain (administration, education, entertainment, services,     |
|-------------|--------------------------------------------------------------------------------------------------|
|             | craftsmen); [SU19] Building and construction work; [PC1] Adhesives, sealants; [PROC19]           |
|             | Hand-mixing with intimate contact and only PPE available; [ERC3] Formulation in materials; [AC4] |
|             | Stone, plaster, cement, glass and ceramic articles;                                              |

### 1.3. Details of the supplier of the safety data sheet

Company Larsen Building Products Ltd

Address 4 West Bank Road

Belfast Harbour Industrial Estate

Belfast BT3 9JL United Kingdom

Web www.larsenbuildingproducts.com

**Telephone** +44 (0)28 9077 4000 **Fax** +44 (0)28 9077 6945

Email I.pyper@larsenbuildingproducts.com

## 1.4. Emergency telephone number

(00353) 01 809 2166

Company

National Poisons Centre of Ireland 8am-10pm 7 days a week

#### **Further information**

This product is intended for use as in the installations, bedding or grouting of paving for highways or pavements.

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

| 2.1.2. Classification - EC | ; |
|----------------------------|---|
| 1272/2008                  |   |

Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; STOT SE 3: H335; Repr. 2: H361d; STOT RE 1: H372; Aquatic Chronic 3: H412;

## 2.2. Label elements

## Hazard pictograms







Signal Word

Danger

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# 2.2. Label elements

| Z.Z. Laber elements      |                                                                                                    |  |  |  |
|--------------------------|----------------------------------------------------------------------------------------------------|--|--|--|
| Hazard Statement         | Flam. Liq. 3: H226 - Flammable liquid and vapour.                                                  |  |  |  |
|                          | Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.                                  |  |  |  |
|                          | Skin Irrit. 2: H315 - Causes skin irritation.  Eye Irrit. 2: H319 - Causes serious eye irritation. |  |  |  |
|                          |                                                                                                    |  |  |  |
|                          | Acute Tox. 4: H332 - Harmful if inhaled.                                                           |  |  |  |
|                          | STOT SE 3: H335 - May cause respiratory irritation.                                                |  |  |  |
|                          | Repr. 2: H361d - Suspected of damaging the unborn child.                                           |  |  |  |
|                          | STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure .                 |  |  |  |
|                          | Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.                       |  |  |  |
| Precautionary Statement: | P201 - Obtain special instructions before use.                                                     |  |  |  |
| Prevention               | P202 - Do not handle until all safety precautions have been read and understood.                   |  |  |  |
|                          | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No       |  |  |  |
|                          | smoking.                                                                                           |  |  |  |
|                          | P233 - Keep container tightly closed.                                                              |  |  |  |
|                          | P240 - Ground/bond container and receiving equipment.                                              |  |  |  |
|                          | P241 - Use explosion-proof electrical/ventilating/lighting// equipment.                            |  |  |  |
|                          | P242 - Use only non-sparking tools.                                                                |  |  |  |
|                          | P243 - Take precautionary measures against static discharge.                                       |  |  |  |
|                          | P260 - Do not breathe dust/fume/gas/mist/vapours/spray.                                            |  |  |  |
|                          | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.                                           |  |  |  |
|                          | P264 - Wash thoroughly after handling.                                                             |  |  |  |
|                          | P270 - Do no eat, drink or smoke when using this product.                                          |  |  |  |
|                          | P271 - Use only outdoors or in a well-ventilated area.                                             |  |  |  |
|                          | P273 - Avoid release to the environment.                                                           |  |  |  |
|                          | P280 - Wear protective gloves/protective clothing/eye protection/face protection.                  |  |  |  |
| Precautionary Statement: | P301+P310 - IF SWALLOWED: IF SWALLOWED: Immediately call a POISON CENTER/doctor/ .                 |  |  |  |
| Response                 | P302+P352 - IF ON SKIN: Wash with plenty of water/ .                                               |  |  |  |
| . Kosponies              | P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse       |  |  |  |
|                          | skin with water/shower.                                                                            |  |  |  |
|                          | P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.             |  |  |  |
|                          | 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.                                 |  |  |  |
|                          | P312 - Call a POISON CENTER/doctor/ /if you feel unwell.                                           |  |  |  |
|                          | P314 - Get medical advice/attention if you feel unwell.                                            |  |  |  |
|                          | P321 - Specific treatment (see on this label).                                                     |  |  |  |
|                          | P331 - Do NOT induce vomiting.                                                                     |  |  |  |
|                          | P332+P313 - If skin irritation occurs: Get medical advice/attention.                               |  |  |  |
|                          | P337+P313 - If eye irritation persists: Get medical advice/attention.                              |  |  |  |
|                          | P370+P378 - In case of fire: Use to extinguish.                                                    |  |  |  |
| Precautionary Statement: | P403+P233 - Store in a well-ventilated place. Keep container tightly closed.                       |  |  |  |
| Storage                  | P403+P235 - Store in a well-ventilated place. Keep cool.                                           |  |  |  |
|                          | P405 - Store locked up.                                                                            |  |  |  |
| Precautionary Statement: | P501 - Dispose of contents/container to licensed waste disposal site                               |  |  |  |
| Disposal                 | 1 00 1 Dispose of contents/container to licensed waste disposal site                               |  |  |  |
| Dispusai                 | 1                                                                                                  |  |  |  |

# SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

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#### 3.2. Mixtures

### EC 1272/2008

| Chemical Name      | Index No. | CAS No.  | EC No.    | <br>Conc.<br>(%w/w) | Classification                                                                                                                                  |
|--------------------|-----------|----------|-----------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Styrenes (Styrene) |           | 100-42-5 | 202-851-5 |                     | Flam. Liq. 3: H226; Asp. Tox. 1: H304; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; STOT SE 3: H335; Repr. 2: H361d; STOT RE 1: |
| 4-napthoquinone    |           | 130-15-4 | 204-977-6 |                     | H412; Acute Tox. 3: H301; Acute Tox. 3: H311; Skin Corr. 1C:                                                                                    |
|                    |           |          |           |                     | H314; Skin Sens. 1: H317; Acute Tox. 1: H330; STOT SE 3: H335; Aquatic Acute 1: H400; Aquatic Chronic 1:                                        |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

| Inhalation   | Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.                                                                                                            |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact  | May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.                                                                                                     |
| Skin contact | May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.                                                                             |
| Ingestion    | Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label. |

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.

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

. Burning produces irritating, toxic and obnoxious fumes.

### 5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

## SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.

#### 6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

## 6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. Keep away from sources of ignition - No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing.

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# 7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1. Exposure Limit Values

| Highways PM04 Resin Solution (Larcrete PM Pt B) | WEL 8-hr limit ppm: 100      | WEL 8-hr limit mg/m3:          |
|-------------------------------------------------|------------------------------|--------------------------------|
| ,                                               | WEL 15 min limit ppm: 250    | WEL 15 min limit mg/m3:        |
|                                                 | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
|                                                 | inhalable dust:              | inhalable dust:                |
|                                                 | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
|                                                 | respirable dust:             | respirable dust:               |
| Styrenes (Styrene)                              | WEL 8-hr limit ppm: 100      | WEL 8-hr limit mg/m3: 430      |
|                                                 | WEL 15 min limit ppm: 250    | WEL 15 min limit mg/m3: 1080   |
|                                                 | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
|                                                 | inhalable dust:              | inhalable dust:                |
|                                                 | WEL 8-hr limit mg/m3 total - | WEL 15 min limit mg/m3 total - |
|                                                 | respirable dust:             | respirable dust:               |

DNEL: Derived no-effect level.

## **Exposure Pattern - Workers**

| Highways PM04 Resin Solution | Acute inhalation - Systemic 2 effects | 289 mg/m³        |                                        |          |
|------------------------------|---------------------------------------|------------------|----------------------------------------|----------|
|                              | Acute inhalation - Local effects      | 306 mg/m³ Long-t | erm - inhalation - Systemic<br>effects | 85 mg/m³ |
|                              | Long-term - dermal - Systemic 4       | 406 mg/kg        |                                        |          |
|                              | effects                               |                  |                                        |          |

## **Exposure Pattern - General population**

| Highways PM04 Resin Solution | Acute inhalation - Systemic 174.25 mg/m³                  |                                               |
|------------------------------|-----------------------------------------------------------|-----------------------------------------------|
|                              | effects                                                   |                                               |
|                              | Acute inhalation - Local effects 182.75 mg/m <sup>3</sup> | Long-term - inhalation - Systemic 10.2 mg/m³  |
|                              |                                                           | effects                                       |
|                              | Long-term - dermal - Systemic 343 mg/kg                   | Long-term - oral - Systemic effects 2.1 mg/kg |
|                              | effects                                                   |                                               |

## 8.2. Exposure controls

| 8.2.1. Appropriate engineering controls | Ensure adequate ventilation of the working area.    |
|-----------------------------------------|-----------------------------------------------------|
| 8.2.2. Individual protection measures   | Wear chemical protective clothing.                  |
| Eye / face protection                   | Approved safety goggles.                            |
| Skin protection -<br>Handprotection     | Chemical resistant gloves (PVC).                    |
| Respiratory protection                  | Wear suitable respiratory equipment when necessary. |

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# 9.1. Information on basic physical and chemical properties

Appearance Liquid

Colour Amber

Odour Characteristic

Odour threshold > 0.15 ppm

pH 7

Melting point > 25 °C
Initial boiling point 145 °C
Flash point 33 °C

Upper Explosive Limit 6.1 %
Lower Explosive Limit 1.1 %

Vapour pressure 670 Pa
Relative Vapour Density 3.6 g/cm³

Density / Relative Density 1.1 (H2O = 1 @ 20 °C)

Partition coefficient (n-octanol/water)
Autoignition temperature 490 °C

Viscosity > 0.205 x 10-6 m²/s @ 40 °C (ISO 3104/3105)

Solubility

Insoluble in water

### 9.2. Other information

Specific gravity 1.05 - 1.2 g/cm³

## SECTION 10: Stability and reactivity

### 10.2. Chemical stability

Stable under normal conditions.

# 10.3. Possibility of hazardous reactions

Oxidising agents.

## 10.4. Conditions to avoid

Heat, sparks and open flames.

## SECTION 11: Toxicological information

## 11.1 Information on hazard classes

Acute toxicity Harmful if inhaled. May be fatal if swallowed and enters airways.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Respiratory or skin

Causes serious eye irritation.

May cause respiratory irritation.

sensitisation

Germ cell mutagenicity Not classified (Based on available data, the classification criteria are not met).

Not classified (Based on available data, the classification criteria are not met).

Reproductive toxicity Suspected of damaging the unborn child.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

# 11.1.4. Toxicological Information

| Highways PM04 Resin Solution | Dermal Rat LD50: >2000mg/kg        | Oral Rat LD50: >5000mg/kg |
|------------------------------|------------------------------------|---------------------------|
|                              | Inhalation Rat LC50/4 h: 10-20mg/L |                           |

## SECTION 12: Ecological information

### 12.1. Toxicity

Carcinogenicity

Revision 13 Revision date 2023-09-27

| 12.1. Toxic | city |
|-------------|------|
|-------------|------|

No data available

## SECTION 13: Disposal considerations

## **General information**

Dispose of in compliance with all local and national regulations.

## **SECTION 14: Transport information**

## Hazard pictograms



## 14.1. UN number

UN1866

## 14.2. UN proper shipping name

**RESIN SOLUTION** 

### 14.3. Transport hazard class(es)

| ADR/RID         | 3 |
|-----------------|---|
| Subsidiary risk | - |
| IMDG            | 3 |
| Subsidiary risk | - |
| IATA            | 3 |
| Subsidiary risk | - |

## 14.4. Packing group

Packing group

### 14.5. Environmental hazards

| Environmental hazards | No |
|-----------------------|----|
| Marine pollutant      | No |

## ADR/RID

| Hazard ID       | 30    |
|-----------------|-------|
| Tunnel Category | (D/E) |

## **IMDG**

| EmS Code | F-E S-E |
|----------|---------|
|          |         |

# IATA

| Packing Instruction (Cargo) | 366   |
|-----------------------------|-------|
| Maximum quantity            | 220 L |
| Packing Instruction         | 355   |
| (Passenger)                 |       |
| Maximum quantity            | 60 I  |

# **SECTION 15: Regulatory information**

## **SECTION 16: Other information**

Revision 13 Revision date 2023-09-27

# Other information

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------|
| 1 - UFI No. 11 - Acute toxicity. 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitisation. 11 - Germ cell mutagenicity. 11 - Carcinogenicity. 11 - Reproductive toxicity. 11 - Serious eye damage/irritation. 11 - Serious eye damage/irritation. 11 - STOT-single exposure. 11 - STOT-single exposure. 11 - STOT-repeated exposure. Flam. Liq. 3: H226 - Flammable liquid and vapour. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Repr. 2: H361d - Suspected of damaging the unborn child. STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure . Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin Skin Corr. 10: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 1: H330 - Fatal if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Further information  The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in                                                                                                                                                                                                                                                                                                                                                                                                                             | Revision                     | This document differs from the previous version in the following areas:.        |
| 11 - Acute toxicity. 11 - Skin corrosion/irritation. 11 - Respiratory or skin sensitisation. 11 - Germ cell mutagenicity. 11 - Carcinogenicity. 11 - Serious eye damage/irritation. 11 - STOT-single exposure. 11 - STOT-single exposure. 11 - STOT-repeated exposure. 11 - STOT-repeated exposure. 11 - STOT - Single exposure. 11 - STOT - Single exposure. 12 - STOT - Single exposure. 13 - Tox. 1: H304 - May be fatal if swallowed and enters ainways. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Eye Irrit. 2: H333 - May cause respiratory irritation. Repr. 2: H361d - Suspected of damaging the unborn child. STOT SE 1: H332 - May cause respiratory irritation. Repr. 2: H361d - Suspected of damaging the unborn child. STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin Skin Corr. 1C: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 1: H330 - Fatal if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Further Information  The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in                                                                                                                                                                                                                                                                                                                                                                 |                              | 1 - Other means of identification / UFI.                                        |
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| Skin Irrit. 2: H315 - Causes skin irritation.  Eye Irrit. 2: H319 - Causes serious eye irritation.  Acute Tox. 4: H332 - Harmful if inhaled.  STOT SE 3: H335 - May cause respiratory irritation.  Repr. 2: H361d - Suspected of damaging the unborn child.  STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.  Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin  Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.  Skin Sens. 1: H317 - May cause an allergic skin reaction.  Acute Tox. 1: H330 - Fatal if inhaled.  Aquatic Acute 1: H400 - Very toxic to aquatic life.  Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Further information  The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Text of Hazard Statements in | Flam. Liq. 3: H226 - Flammable liquid and vapour.                               |
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| Acute Tox. 3: H301+H311 - Toxic if swallowed or in contact with skin Skin Corr. 1C: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Acute Tox. 1: H330 - Fatal if inhaled. Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Further information  The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                              |                                                                                 |
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| Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  Further information  The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              | · · · · · · · · · · · · · · · · · · ·                                           |
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| combination with any other materials or in any other process.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              | combination with any other materials or in any other process.                   |