



## SAFETY DATA SHEET MOEPSE part A

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

#### 1.1. Product identifier

Product name MOEPSE part A

Product number BPF053

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

Identified uses Resin.

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

Supplier Técnicas Expansivas S.L.  
Segador 13. 26006  
Logroño. España  
Tel: +34 941 272 131  
Fax: +34 941 272 132  
email: info@indexfix.com  
www.indexfix.com

Web www.indexfix.com

Contact person info@indexfix.com

#### 1.4. Emergency telephone number

Emergency telephone +34 941.272.137

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

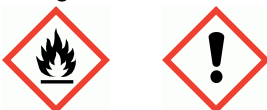
Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Not Classified

Human health Vapours may irritate throat/respiratory system. May irritate eyes and skin. May cause skin sensitisation or allergic reactions in sensitive individuals.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

Hazard statements  
H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

## MOEPSE part A

|   |  |
|---|--|
| <b>Precautionary statements</b>               | <p>P261 Avoid breathing vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p> |
| <b>Contains</b>                               | 2-HYDROXYPROPYL METHACRYLATE   |
| <b>Supplementary precautionary statements</b> | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P233 Keep container tightly closed.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p>   |

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

|   |  |   |
|---|--|---|
| <b>2-HYDROXYPROPYL METHACRYLATE</b> <span style="float: right;"><b>5-10%</b></span> |  |   |
| CAS number: 27813-02-1  | EC number: 248-666-3                             | REACH registration number: 01-2119490226-37 |
| <b>Classification</b>   |  |   |
| Eye Irrit. 2 - H319   |  |   |
| Skin Sens. 1 - H317   |  |   |
| <b>VINYL TOLUENE</b> <span style="float: right;"><b>5-10%</b></span>                |  |   |
| CAS number: 25013-15-4  | EC number: 246-562-2                             | REACH registration number: 01-2119622074-50 |
| <b>Classification</b>   |  |   |
| Flam. Liq. 3 - H226   |  |   |
| Acute Tox. 4 - H332   |  |   |
| Skin Irrit. 2 - H315  |  |   |
| Eye Irrit. 2 - H319   |  |   |
| Asp. Tox. 1 - H304  |  |   |
| <b>TITANIUM DIOXIDE</b> <span style="float: right;"><b>&gt;0.5 &lt;1.0%</b></span>  |  |   |
| CAS number: 13463-67-7  | EC number: 236-675-5                             | REACH registration number: 01-2119489379-17 |
| <b>Classification</b>   |  |   |
| Not Classified  | <b>Classification (67/548/EEC or 1999/45/EC)</b> |   |
|   | -  |   |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

## MOEPSE part A

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move affected person to fresh air at once. Get medical attention if any discomfort continues.   |
| <b>Ingestion</b>    | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.  |
| <b>Skin contact</b> | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.   |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel. |

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

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Irritation of nose, throat and airway.   |
| <b>Ingestion</b>    | May cause discomfort if swallowed.       |
| <b>Skin contact</b> | May cause skin irritation/eczema.        |
| <b>Eye contact</b>  | Irritation of eyes and mucous membranes. |

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

|                             |   |
|-----------------------------|---|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                     |   |
|-------------------------------------|---|
| <b>Suitable extinguishing media</b> | Extinguish with foam, carbon dioxide or dry powder. |
|-------------------------------------|---|

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

|                                      |   |
|--------------------------------------|---|
| <b>Specific hazards</b>              | No unusual fire or explosion hazards noted. |
| <b>Hazardous combustion products</b> | Oxides of carbon.                           |

### 5.3. Advice for firefighters

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | Avoid breathing fire gases or vapours.  |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

## SECTION 6: Accidental release measures

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

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

### 6.2. Environmental precautions

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>Environmental precautions</b> | Avoid release to the environment. |
|----------------------------------|-----------------------------------|

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

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |
|--------------------------------|--|

### 6.4. Reference to other sections

|                                    |   |
|------------------------------------|---|
| <b>Reference to other sections</b> | Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13. |
|------------------------------------|---|

## SECTION 7: Handling and storage

## MOEPSE part A

### 7.1. Precautions for safe handling

**Usage precautions** Do not use in confined spaces without adequate ventilation and/or respirator.

### 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. Keep away from oxidising materials, heat and flames.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

WEL = Workplace Exposure Limit

#### 2-HYDROXYPROPYL METHACRYLATE (CAS: 27813-02-1)

|             |   |
|-------------|---|
| <b>DNEL</b> | Workers - Dermal; Long term systemic effects: 4.2 mg/kg<br>Workers - Inhalation; Long term systemic effects: 14.7 mg/m <sup>3</sup>                                 |
| <b>PNEC</b> | Fresh water; 0.904 mg/l<br>Marine water; 0.904 mg/l<br>STP; 20 mg/l<br>Sediment (Freshwater); 6.28 mg/kg<br>Sediment (Marinewater); 6.28 mg/kg<br>Soil; 0.727 mg/kg |

#### VINYL TOLUENE (CAS: 25013-15-4)

|             |   |
|-------------|---|
| <b>DNEL</b> | Industry - Inhalation; Long term systemic effects: 37 mg/m <sup>3</sup><br>Industry - Inhalation; Long term local effects: 37 mg/m <sup>3</sup><br>REACH dossier information  |
| <b>PNEC</b> | - Fresh water; 0.0498 mg/l<br>- Marine water; 0.002 mg/l<br>- Intermittent release; 0.013 mg/l<br>- STP; 1 mg/l<br>- Sediment (Freshwater); 0.684 mg/kg<br>- Sediment (Marinewater); 0.0684 mg/kg<br>- Soil; 0.133 mg/kg<br>REACH dossier information |

#### TITANIUM DIOXIDE (CAS: 13463-67-7)

|             |  |
|-------------|--|
| <b>DNEL</b> | Industry - Inhalation; Long term systemic effects: 10 mg/m <sup>3</sup><br>REACH dossier information |
|-------------|--|

## MOEPSE part A

### PNEC

- Fresh water; 0.127 mg/l
  - Marine water; 1.0 mg/l
  - Intermittent release; 0.61 mg/l
  - STP; 100 mg/l
  - Sediment (Freshwater); 1000 mg/kg
  - Sediment (Marinewater); 100 mg/kg
  - Soil; 100 mg/kg
- REACH dossier information

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact.

#### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

#### Environmental exposure controls

Keep container tightly sealed when not in use.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

|  |                 |
|--|-----------------|
| Appearance                                   | Liquid          |
| Colour                                       | Beige.          |
| Odour  | Aromatic.       |
| Odour threshold                              | Not determined. |
| pH   | Not applicable. |
| Melting point                                | Not determined. |
| Initial boiling point and range              | >165°C @        |
| Flash point                                  | 53°C            |
| Evaporation rate                             | Not determined. |
| Evaporation factor                           | Not determined. |
| Flammability (solid, gas)                    | Not determined. |
| Upper/lower flammability or explosive limits | Not determined. |

## MOEPSE part A

|                                  |   |
|----------------------------------|---|
| <b>Other flammability</b>        | Not determined.   |
| <b>Vapour pressure</b>           | 6 hPa @ 20°C  |
| <b>Vapour density</b>            | Not determined.   |
| <b>Relative density</b>          | 1.65 - 1.75 @ 20°C  |
| <b>Bulk density</b>              | Not applicable.   |
| <b>Solubility(ies)</b>           | Insoluble in water  |
| <b>Partition coefficient</b>     | Not determined.   |
| <b>Auto-ignition temperature</b> | Not determined.   |
| <b>Decomposition Temperature</b> | Not determined.   |
| <b>Viscosity</b>                 | > 60 S ISO2431  |
| <b>Explosive properties</b>      | No information available.                                   |
| <b>Oxidising properties</b>      | Does not meet the criteria for classification as oxidising. |

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Organic peroxides/hydroperoxides.

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Does not decompose when used and stored as recommended.

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

##### 10.5. Incompatible materials

**Materials to avoid** Organic peroxides/hydroperoxides.

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 159.52

###### Skin sensitisation

**Skin sensitisation** Sensitising.

###### Inhalation

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

###### Ingestion

May cause discomfort if swallowed.

## MOEPSE part A

|   |  |
|---|--|
| <b>Skin contact</b>                     | May cause sensitisation by skin contact. May cause irritation.                                   |
| <b>Eye contact</b>                      | Irritating to eyes.  |
| <b>Acute and chronic health hazards</b> | Irritating to eyes. May cause sensitisation by skin contact.                                     |
| <b>Route of exposure</b>                | Skin and/or eye contact.   |
| <b>Medical symptoms</b>                 | Irritation of eyes and mucous membranes. Irritation of nose, throat and airway. Skin irritation. |
| <b>Medical considerations</b>           | Skin disorders and allergies.  |

### Toxicological information on ingredients.

#### 2-HYDROXYPROPYL METHACRYLATE

##### Acute toxicity - oral

|  |          |
|--|----------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 11,200.0 |
| <b>Species</b>                                     | Rat      |
| <b>ATE oral (mg/kg)</b>                            | 11,200.0 |

#### VINYL TOLUENE

##### Acute toxicity - oral

|  |         |
|--|---------|
| <b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b> | 2,255.0 |
| <b>Species</b>                                     | Rat     |
| <b>ATE oral (mg/kg)</b>                            | 2,255.0 |

##### Acute toxicity - dermal

|  |         |
|--|---------|
| <b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b> | 4,500.0 |
| <b>Species</b>                                       | Rat     |
| <b>ATE dermal (mg/kg)</b>                            | 4,500.0 |

##### Acute toxicity - inhalation

|                                      |      |
|--------------------------------------|------|
| <b>ATE inhalation (vapours mg/l)</b> | 11.0 |
|--------------------------------------|------|

##### Carcinogenicity

|                             |  |
|-----------------------------|--|
| <b>IARC carcinogenicity</b> | IARC Group 3 Not classifiable as to its carcinogenicity to humans. |
|-----------------------------|--|

### **SECTION 12: Ecological Information**

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | Not regarded as dangerous for the environment. |
|--------------------|--|

#### 12.1. Toxicity

##### Ecological information on ingredients.

#### VINYL TOLUENE

##### Acute aquatic toxicity

|                              |  |
|------------------------------|--|
| <b>Acute toxicity - fish</b> | LC50, 96 hours: 23.4 mg/l, Pimephales promelas (Fat-head Minnow) |
|------------------------------|--|

## MOEPSE part A

**Acute toxicity - aquatic invertebrates**      EC<sub>50</sub>, 48 hours: 1.3 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**      EC<sub>50</sub>, 72 hours: 2.6 mg/l, Selenastrum capricornutum

### 12.2. Persistence and degradability

### 12.3. Bioaccumulative potential

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

**Partition coefficient**      Not determined.

### Ecological information on ingredients.

#### 2-HYDROXYPROPYL METHACRYLATE

**Partition coefficient**      log Kow: 0.93

#### VINYL TOLUENE

**Partition coefficient**      log Pow: 3.36

### 12.4. Mobility in soil

**Mobility**      Not applicable.

### 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 applicable.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**General information**      Dispose of waste product or used containers in accordance with local regulations

**Disposal methods**      Dispose of waste via a licensed waste disposal contractor.

**Waste class**      The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

## **SECTION 14: Transport information**

**Road transport notes**      Not regulated.

**Rail transport notes**      Not regulated.

### 14.1. UN number

**UN No. (IMDG)**      1866

**UN No. (ICAO)**      1866

### 14.2. UN proper shipping name

**Proper shipping name (IMDG)** RESIN SOLUTION

**Proper shipping name (ICAO)** RESIN SOLUTION

### 14.3. Transport hazard class(es)



## MOEPSE part A

IMDG class 3

ICAO class/division 3

### Transport labels



### 14.4. Packing group

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-E, S-E

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

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

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

EU legislation (EU) No 2015/830

Guidance Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### Inventories

#### US - TSCA

All the ingredients are listed or exempt.

## SECTION 16: Other information

**Revision comments** NOTE: Lines within the margin indicate significant changes from the previous revision.

**Revision date** 30/01/2018

**Version number** 1.002

**Supersedes date** 26/05/2016

**SDS number** 20343

**Hazard statements in full** H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.

## MOEPSE part A

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.



## SAFETY DATA SHEET MOEPSE part B

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

#### 1.1. Product identifier

Product name MOEPSE part B  
Product number BPF001 MOEPSE

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

Identified uses Catalyst.

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

Supplier Técnicas Expansivas S.L.  
Segador 13. 26006  
Logroño. España  
Tel: +34 941 272 131  
Fax: +34 941 272 132  
email: info@indexfix.com  
www.indexfix.com

Web www.indexfix.com

Contact person info@indexfix.com

#### 1.4. Emergency telephone number

Emergency telephone +34 941.272.137

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

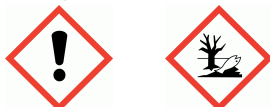
Human health May cause skin disorders if contact is repeated or prolonged. May irritate eyes and skin.

Environmental The product contains a substance which is very toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

Physicochemical Not considered to be a significant hazard due to the small quantities used.

#### 2.2. Label elements

##### Pictogram



Signal word Warning

## MOEPSE part B

|   |  |
|---|--|
| <b>Hazard statements</b>                      | H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H410 Very toxic to aquatic life with long lasting effects.   |
| <b>Precautionary statements</b>               | P273 Avoid release to the environment.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| <b>Contains</b>                               | BENZOYL PEROXIDE   |
| <b>Supplementary precautionary statements</b> | P264 Wash contaminated skin thoroughly after handling.<br>P337+P313 If eye irritation persists: Get medical advice/ attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse.<br>P391 Collect spillage.<br>P411 Store at temperatures not exceeding 25°C/77°F.  |

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

|   |  |
|---|--|
| <b>BENZOYL PEROXIDE</b>                             | <b>10-15%</b>                                    |
| CAS number: 94-36-0                                 | EC number: 202-327-6                             |
|   | REACH registration number: 01-2119511472-50      |
| M factor (Acute) = 10                               | M factor (Chronic) = 10                          |
| <b>Classification</b>                               |  |
| Org. Perox. B - H241                                |  |
| Eye Irrit. 2 - H319                                 |  |
| Skin Sens. 1 - H317                                 |  |
| Aquatic Acute 1 - H400                              |  |
| Aquatic Chronic 1 - H410                            |  |
| <b>BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR</b> | <b>5-10%</b>                                     |
| CAS number: 670241-72-2                             | EC number: 447-010-5                             |
|   | REACH registration number: 01-0000018876-55      |
| <b>Classification</b>                               |  |
| Aquatic Chronic 2 - H411                            |  |
| <b>ZINC DISTEARATE</b>                              | <b>1-5%</b>                                      |
| CAS number: 557-05-1                                | EC number: 209-151-9                             |
|   | REACH registration number: 01-2119982400-42      |
| M factor (Acute) = 1                                |  |
| <b>Classification</b>                               | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Aquatic Acute 1 - H400                              | -  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## MOEPSE part B

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Move affected person to fresh air at once. Get medical attention if any discomfort continues.   |
| <b>Ingestion</b>    | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.  |
| <b>Skin contact</b> | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.   |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel. |

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

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | May cause discomfort if swallowed.       |
| <b>Skin contact</b> | Causes skin irritation.                  |
| <b>Eye contact</b>  | Irritation of eyes and mucous membranes. |

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

|                             |   |
|-----------------------------|---|
| <b>Notes for the doctor</b> | No specific recommendations. If in doubt, get medical attention promptly. |
|-----------------------------|---|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

|                                     |   |
|-------------------------------------|---|
| <b>Suitable extinguishing media</b> | Extinguish with foam, carbon dioxide or dry powder. |
|-------------------------------------|---|

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

|                                      |  |
|--------------------------------------|--|
| <b>Specific hazards</b>              | No specific precautions due to the small quantities handled. |
| <b>Hazardous combustion products</b> | Oxides of carbon.  |

#### 5.3. Advice for firefighters

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | Avoid breathing fire gases or vapours.  |
| <b>Special protective equipment for firefighters</b> | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

### SECTION 6: Accidental release measures

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

|                             |   |
|-----------------------------|---|
| <b>Personal precautions</b> | Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|---|

#### 6.2. Environmental precautions

|                                  |                                   |
|----------------------------------|-----------------------------------|
| <b>Environmental precautions</b> | Avoid release to the environment. |
|----------------------------------|-----------------------------------|

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

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. |
|--------------------------------|--|

#### 6.4. Reference to other sections

|                                    |   |
|------------------------------------|---|
| <b>Reference to other sections</b> | Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13. |
|------------------------------------|---|

## MOEPSE part B

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|   |   |
|---|---|
| <b>Usage precautions</b>                      | Keep away from heat, sparks and open flame.   |
| <b>Advice on general occupational hygiene</b> | Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. |

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

|                            |  |
|----------------------------|--|
| <b>Storage precautions</b> | Keep away from flammable and combustible materials. Store in closed original container at temperatures between 5°C and 25°C. |
| <b>Storage class</b>       | Chemical storage.  |

#### 7.3. Specific end use(s)

|                            |   |
|----------------------------|---|
| <b>Specific end use(s)</b> | 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

##### BENZOYL PEROXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

##### BENZOYL PEROXIDE (CAS: 94-36-0)

|             |  |
|-------------|--|
| <b>DNEL</b> | Industry - Inhalation; Long term : 11.75 mg/m <sup>3</sup><br>Industry - Dermal; Long term : 6.6 mg/kg/day<br>Industry - Oral; Long term : 1.6 mg/kg/day             |
| <b>PNEC</b> | - STP; 0.35 mg/l<br>- Fresh water; 0.000602 mg/l<br>- Sediment (Marinewater); 0.0338 mg/kg<br>- Marine water; 0.0000602 mg/l<br>- Sediment (Freshwater); 0.338 mg/kg |

#### 8.2. Exposure controls

##### Protective equipment



**Appropriate engineering controls**

Provide adequate ventilation.

**Eye/face protection**

The following protection should be worn: Chemical splash goggles.

**Hand protection**

Wear protective gloves made of the following material: Nitrile rubber.

**Other skin and body protection**

Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures**

Wash at the end of each work shift and before eating, smoking and using the toilet. DO NOT SMOKE IN WORK AREA!

**Respiratory protection**

No specific recommendations.

## MOEPSE part B

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| <b>Appearance</b>                                   | Liquid                    |
| <b>Colour</b>                                       | Black.                    |
| <b>Odour</b>  | Characteristic.           |
| <b>Odour threshold</b>                              | Not determined.           |
| <b>pH</b>   | 5 - 6                     |
| <b>Melting point</b>                                | Not applicable.           |
| <b>Initial boiling point and range</b>              | Not applicable.           |
| <b>Flash point</b>                                  | Not applicable.           |
| <b>Evaporation rate</b>                             | Not determined.           |
| <b>Evaporation factor</b>                           | Not determined.           |
| <b>Flammability (solid, gas)</b>                    | Not determined.           |
| <b>Upper/lower flammability or explosive limits</b> | Not determined.           |
| <b>Other flammability</b>                           | Not determined.           |
| <b>Vapour pressure</b>                              | Not determined.           |
| <b>Vapour density</b>                               | Not determined.           |
| <b>Relative density</b>                             | 1.5 - 1.6                 |
| <b>Bulk density</b>                                 | Not applicable.           |
| <b>Solubility(ies)</b>                              | Not determined.           |
| <b>Partition coefficient</b>                        | Not determined.           |
| <b>Auto-ignition temperature</b>                    | Not determined.           |
| <b>Decomposition Temperature</b>                    | >50°C                     |
| <b>Viscosity</b>                                    | > 60 S ISO2431            |
| <b>Explosive properties</b>                         | No information available. |
| <b>Oxidising properties</b>                         | Not determined.           |

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids. Alkalis. Amines. Strong reducing agents.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Will decompose at temperatures exceeding 50°C.

#### 10.3. Possibility of hazardous reactions

## MOEPSE part B

**Possibility of hazardous reactions** Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with strong reducing agents. Avoid heat. Avoid contact with acids and alkalis.

### 10.5. Incompatible materials

**Materials to avoid** Strong reducing agents. Acids, non-oxidising. Acids - organic. Alkalis - inorganic. Alkalis - organic. Amines.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Skin sensitisation

**Skin sensitisation** Sensitising.

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed.

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

**Eye contact** Irritation of eyes and mucous membranes.

**Route of exposure** Skin and/or eye contact.

**Medical symptoms** Skin irritation. Irritation of eyes and mucous membranes.

**Medical considerations** No information available.

#### Toxicological information on ingredients.

### BENZOYL PEROXIDE

#### Carcinogenicity

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

## SECTION 12: Ecological Information

### 12.1. Toxicity

#### Ecological information on ingredients.

### BENZOYL PEROXIDE

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.06 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.11 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.07 mg/l, Selenastrum capricornutum



## MOEPSE part B

### Chronic aquatic toxicity

M factor (Chronic) 10

### BENZOIC ACID,NONYL ESTER,BRANCHED AND LINEAR

### Acute aquatic toxicity

|   |  |
|---|--|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 24 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)  |
|   | LC <sub>50</sub> , 48 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)  |
|   | LC <sub>50</sub> , 72 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)  |
|   | EC <sub>50</sub> , 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)  |
|   | EC <sub>100</sub> , 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp) |
| <b>Acute toxicity - aquatic invertebrates</b> | NOEC, 96 hours: > 1.23 mg/l, Cyprinus carpio (Common carp)               |
|   | EC <sub>50</sub> , 24 hours: > 2.2 mg/l, Daphnia magna                   |
|   | EC <sub>50</sub> , 48 hours: > 2.2 mg/l, Daphnia magna                   |
| <b>Acute toxicity - microorganisms</b>        | NOEC, 48 hours: > 2.2 mg/l, Daphnia magna                                |
|   | IC <sub>50</sub> , 3 hours: > 1000 mg/l, Activated sludge                |
|   | NOEC, 3 hours: > 1000 mg/l, Activated sludge                             |

### 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.

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** Mobile. The product is partly miscible with water and may spread in the aquatic environment.

### 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

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

**Disposal methods** Dispose of waste via a licensed waste disposal contractor.

**Waste class** The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

## **SECTION 14: Transport information**

### 14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

### 14.2. UN proper shipping name

## MOEPSE part B

|                                       |   |
|---------------------------------------|---|
| <b>Proper shipping name (ADR/RID)</b> | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| <b>Proper shipping name (IMDG)</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| <b>Proper shipping name (ICAO)</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |
| <b>Proper shipping name (ADN)</b>     | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS BENZOYL PEROXIDE, BENZOIC ACID, NONYL ESTER, BRANCHED AND LINEAR) |

### 14.3. Transport hazard class(es)

|                                    |    |
|------------------------------------|----|
| <b>ADR/RID class</b>               | 9  |
| <b>ADR/RID classification code</b> | M6 |
| <b>ADR/RID label</b>               | 9  |
| <b>IMDG class</b>                  | 9  |
| <b>ICAO class/division</b>         | 9  |
| <b>ADN class</b>                   | 9  |

#### Transport labels



### 14.4. Packing group

|                              |     |
|------------------------------|-----|
| <b>ADR/RID packing group</b> | III |
| <b>IMDG packing group</b>    | III |
| <b>ADN packing group</b>     | III |
| <b>ICAO packing group</b>    | III |

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

|   |          |
|---|----------|
| <b>EmS</b>                                    | F-A, S-F |
| <b>ADR transport category</b>                 | 3        |
| <b>Emergency Action Code</b>                  | •3Z      |
| <b>Hazard Identification Number (ADR/RID)</b> | 90       |

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

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

## MOEPSE part B

### SECTION 15: Regulatory information

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

EU legislation (EU) No 2015/830

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### Canada - DSL/NDSL

All the ingredients are listed or exempt.

### SECTION 16: Other information

|                                  |  |
|----------------------------------|--|
| <b>Revision comments</b>         | NOTE: Lines within the margin indicate significant changes from the previous revision.   |
| <b>Revision date</b>             | 01/12/2017   |
| <b>Version number</b>            | 2.000  |
| <b>Supersedes date</b>           | 04/04/2016   |
| <b>SDS number</b>                | 20483  |
| <b>Hazard statements in full</b> | H241 Heating may cause a fire or explosion.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects. |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.