

# **ITW** Engineered Polymers

## SAFETY DATA SHEET FLEXANE PRIMER FL-20

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

#### 1.1. Product identifier

**Product name** FLEXANE PRIMER FL-20  
**Product number** 15985 DE

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

**Identified uses** Primer.

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

**Supplier** ITW Engineered Polymers  
Bay 150  
Shannon Industrial Estate  
Shannon  
Co. Clare

+353 (0)61 471 299  
+353 (0)61 471 285  
mail@itwep.com

#### 1.4. Emergency telephone number

**Emergency telephone** +44(0)1235 239 670 (24h)

### SECTION 2: Hazards identification

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

##### Classification

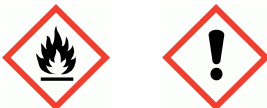
**Physical hazards** Flam. Liq. 2 - H225  
**Health hazards** Eye Irrit. 2 - H319 Elicitation - EUH208 STOT SE 3 - H336  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xn;R20. R42/43. Xi;R36. F;R11. R66.

**Human health** Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Persons susceptible to allergic reactions should not handle this product. Persons with impaired lung function should not handle this product..

#### 2.2. Label elements

##### Pictogram



**Signal word** Danger

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|   |  |
|---|--|
| <b>Hazard statements</b>                      | <p>EUH208 Contains 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE). May produce an allergic reaction.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H319 Causes serious eye irritation.</p> <p>H225 Highly flammable liquid and vapour.</p>  |
| <b>Precautionary statements</b>               | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</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>P337+P313 If eye irritation persists: Get medical advice/attention.</p>  |
| <b>Contains</b>                               | ETHYL ACETATE  |
| <b>Supplementary precautionary statements</b> | <p>P240 Ground/bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use only non-sparking tools.</p> <p>P243 Take precautionary measures against static discharge.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p> |

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|                       |  |
|-----------------------|--|
| <b>ETHYL ACETATE</b>  | <b>60-100%</b>                                   |
| CAS number: 141-78-6  | EC number: 205-500-4                             |
| <b>Classification</b> | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Flam. Liq. 2 - H225   | F;R11 Xi;R36 R66 R67                             |
| Eye Irrit. 2 - H319   |  |
| STOT SE 3 - H336      |  |

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|  |  |               |
|--|--|---------------|
| <b>4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)</b> |  | <b>&lt;1%</b> |
| CAS number: 5124-30-1                          | EC number: 225-863-2                             |               |
| <b>Classification</b>                          | <b>Classification (67/548/EEC or 1999/45/EC)</b> |               |
| Acute Tox. 3 - H331                            | T;R23 R42/43 Xi;R36/37/38                        |               |
| Skin Irrit. 2 - H315                           |  |               |
| Eye Irrit. 2 - H319                            |  |               |
| Resp. Sens. 1 - H334                           |  |               |
| Skin Sens. 1 - H317                            |  |               |
| STOT SE 3 - H335                               |  |               |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Show this safety data sheet to the doctor in attendance  |
| <b>Inhalation</b>          | Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.                                       |
| <b>Ingestion</b>           | Do not induce vomiting. Drink a few glasses of water or milk. Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. |
| <b>Skin contact</b>        | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.   |
| <b>Eye contact</b>         | Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if irritation persists after washing.   |

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

|                            |   |
|----------------------------|---|
| <b>General information</b> | The severity of the symptoms described will vary dependent on the concentration and the length of exposure. |
|----------------------------|---|

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

|                             |   |
|-----------------------------|---|
| <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> | Avoid breathing fire gases or vapours. Irritating gases or vapours. The product is highly flammable. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapours may ignite. Containers can burst violently when heated, due to excess pressure build-up. |
|-------------------------|---|

#### 5.3. Advice for firefighters

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|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. |
| <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> | Warn everybody of potential hazards and evacuate if necessary. Provide adequate ventilation. Do not breathe vapour. Wear protective clothing as described in Section 8 of this safety data sheet. No smoking, sparks, flames or other sources of ignition near spillage. |
|-----------------------------|--|

#### 6.2. Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Avoid or minimise the creation of any environmental contamination. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. |
|----------------------------------|---|

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

|                                |  |
|--------------------------------|--|
| <b>Methods for cleaning up</b> | Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. |
|--------------------------------|--|

#### 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. |
|------------------------------------|---|

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

|                          |   |
|--------------------------|---|
| <b>Usage precautions</b> | Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapours. Avoid spilling. Avoid contact with skin and eyes. Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. |
|--------------------------|---|

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

|                            |   |
|----------------------------|---|
| <b>Storage precautions</b> | Store in tightly-closed, original container in a dry, cool and well-ventilated place. |
|----------------------------|---|

#### 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

##### **ETHYL ACETATE**

Long-term exposure limit (8-hour TWA): WEL 200 ppm

Short-term exposure limit (15-minute): WEL 400 ppm

##### **4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)**

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

WEL = Workplace Exposure Limit

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### Ingredient comments

WEL = Workplace Exposure Limits

### 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE) (CAS: 5124-30-1)

#### DNEL

Workers - Inhalation; Short term local effects: 0.6 mg/m<sup>3</sup>

Workers - Inhalation; Long term local effects: 0.3 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

#### Hand protection

Wear protective gloves made of the following material: Rubber or plastic.

#### Other skin and body protection

Wear chemical protective suit.

#### Hygiene measures

Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Change work clothing daily before leaving workplace. When using do not eat, drink or smoke.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

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

|   |  |
|---|--|
| <b>Appearance</b>                                   | Liquid.  |
| <b>Colour</b>                                       | Orange.  |
| <b>Odour</b>  | Solvent.   |
| <b>pH</b>   | pH (concentrated solution): 7 @ 20 °C                                  |
| <b>Initial boiling point and range</b>              | 77.7°C @   |
| <b>Flash point</b>                                  | -4°C   |
| <b>Evaporation rate</b>                             | 4.1 ( butyl acetate=1)   |
| <b>Upper/lower flammability or explosive limits</b> | Upper flammable/explosive limit: 11 Lower flammable/explosive limit: 2 |
| <b>Vapour pressure</b>                              | 86 mmHg @ °C   |
| <b>Vapour density</b>                               | 3.0  |
| <b>Relative density</b>                             | 0.91 @ 20 °C°C   |

### 9.2. Other information

|                   |    |
|-------------------|----|
| <b>Volatility</b> | 95 |
|-------------------|----|

## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

**Reactivity** Strong oxidising agents. Alcohols, glycols. Amines. Organic peroxides/hydroperoxides.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not available.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Water, moisture.

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with oxidising agents. Organic peroxides/hydroperoxides. Inorganic peroxides. Alcohols, glycols. Amines. Alkalis - inorganic. Alkalis - organic.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 140,000.0

**ATE inhalation (vapours mg/l)** 600.0

**ATE inhalation (dusts/mists mg/l)** 100.0

**Inhalation** Harmful by inhalation. Vapour from this product may be hazardous by inhalation. May cause sensitisation by inhalation. Vapour may affect central nervous system. Symptoms following overexposure may include the following: Headache. Nausea, vomiting. Intoxication. May cause discomfort.

**Ingestion** May cause nausea, headache, dizziness and intoxication. May cause chemical burns in mouth, oesophagus and stomach.

**Skin contact** Prolonged contact may cause dryness of the skin. Product has a defatting effect on skin. May cause allergic contact eczema. Repeated exposure may cause skin dryness or cracking. Prolonged or repeated exposure may cause severe irritation. May cause sensitisation by skin contact.

**Eye contact** May cause severe eye irritation. A single exposure may cause the following adverse effects: Corneal damage.

**Acute and chronic health hazards** The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation.

### Toxicological information on ingredients.

#### 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)

#### Acute toxicity - oral

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**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 18,200.0

**Species** Rat

**ATE oral (mg/kg)** 18,200.0

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 7,000.0

**Species** Rat

**ATE dermal (mg/kg)** 7,000.0

### Acute toxicity - inhalation

**ATE inhalation (gases ppm)** 700.0

**ATE inhalation (vapours mg/l)** 3.0

**ATE inhalation (dusts/mists mg/l)** 0.5

## SECTION 12: Ecological Information

**Ecotoxicity** Avoid releasing into the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

**Mobility** Do not discharge into drains or watercourses or onto the ground.

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** When handling waste, the safety precautions applying to handling of the product should be considered.

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

**Waste class** 08 04 99

**FLEXANE PRIMER FL-20****SECTION 14: Transport information**

**General** No other information known.

**14.1. UN number**

**UN No. (ADR/RID)** 1173

**UN No. (IMDG)** 1173

**UN No. (ICAO)** 1173

**14.2. UN proper shipping name**

**Proper shipping name (ADR/RID)** ETHYL ACETATE

**Proper shipping name (IMDG)** ETHYL ACETATE

**Proper shipping name (ICAO)** ETHYL ACETATE

**Proper shipping name (ADN)** ETHYL ACETATE

**14.3. Transport hazard class(es)**

**ADR/RID class** 3

**ADR/RID subsidiary risk**

**ADR/RID label** 3

**IMDG class** 3

**IMDG subsidiary risk**

**ICAO class/division** 3

**ICAO subsidiary risk**

**Transport labels**

**14.4. Packing group**

**ADR/RID packing group** II

**IMDG packing group** II

**ICAO packing group** II

**14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No.

**14.6. Special precautions for user**

**EmS** F-E, S-D

**Emergency Action Code** 3YE

**Hazard Identification Number (ADR/RID)** 33



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### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information required.

### SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Water hazard classification** WGK 2

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

**Revision date** 30/06/2015

**Revision** 8

**Supersedes date** 08/06/2015

**Risk phrases in full** R11 Highly flammable.  
R20 Harmful by inhalation.  
R23 Toxic by inhalation.  
R36 Irritating to eyes.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R42/43 May cause sensitisation by inhalation and skin contact.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

**Hazard statements in full** EUH208 Contains 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE). May produce an allergic reaction.  
H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.

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.