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 Performance Polymers
Bay 150
Shannon Industrial Estate
Co. Clare
Ireland
V14 DF82
353(61)771500
353(61)471285
mail@itwpp.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards: Flam. Liq. 2 - H225


Environmental hazards: Not Classified

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:

- Flame
- Exclamation mark
- Skin irritation

Signal word: Danger
FLEXANE PRIMER FL-20

Hazard statements
- H225 Highly flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing vapour/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

Contains
ETHYL ACETATE, DIPHENYLMETHANE-4,4’-DI-ISOCYANATE, DIPHENYLMETHANEDIISOCYANATE -Isomers & homologues

Supplementary precautionary statements
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe vapour/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P284 [In case of inadequate ventilation] wear respiratory protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see medical advice on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with national regulations.

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>ETHYL ACETATE</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 141-78-6</td>
<td>EC number: 205-500-4</td>
</tr>
</tbody>
</table>

Classification
- Flam. Liq. 2 - H225
- Eye Irrit. 2 - H319
- STOT SE 3 - H336
### FLEXANE PRIMER FL-20

<table>
<thead>
<tr>
<th>DIPHENYLMETHANEDIISOCYANATE -Isomers &amp; homologues</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 9016-87-9</td>
<td></td>
</tr>
</tbody>
</table>

#### Classification

- Acute Tox. 2 - H330
- Skin Irrit. 2 - H315
- Eye Irrit. 2 - H319
- Resp. Sens. 1 - H334
- Skin Sens. 1 - H317
- Carc. 2 - H351
- STOT SE 3 - H335
- STOT RE 2 - H373

<table>
<thead>
<tr>
<th>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 101-68-8</td>
<td>EC number: 202-966-0</td>
</tr>
</tbody>
</table>

#### Classification

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

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information**

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.

**Inhalation**

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.

**Ingestion**

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.

**Skin contact**

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

**Eye contact**

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

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

**General information**

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

#### 4.3. Indication of any immediate medical attention and special treatment needed
FLEXANE PRIMER FL-20

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards 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

Protective actions during firefighting 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.

Special protective equipment for firefighters 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

Personal precautions 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

Environmental precautions 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

Methods for cleaning up 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

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions 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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).
FLEXANE PRIMER FL-20

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

ETHYL ACETATE
Long-term exposure limit (8-hour TWA): WEL 200 ppm
Short-term exposure limit (15-minute): WEL 400 ppm

DIPHENYLMEHTANEDIISOCYANATE -Isomers & homologues
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)
Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

DIPHENYL METHANE-4,4'-DI-ISOCYANATE
Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³(Sen)
Short-term exposure limit (15-minute): WEL 0.07 mg/m³(Sen)

WEL = Workplace Exposure Limit

Ingredient comments  WEL = Workplace Exposure Limits

DIPHENYL METHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

DNEL
Workers - Inhalation; Long term local effects: 0.05 mg/m³
Workers - Inhalation; Short term local effects: 0.1 mg/m³

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. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Wear protective gloves made of the following material: Rubber or plastic. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 8 hours.

Other skin and body protection
Wear chemical protective suit.

Hygiene measures
Provide eyewash station and safety shower. Keep away from food, drink and animal feeding stuffs. Wash 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.
FLEXANE PRIMER FL-20

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

### SECTION 9: Physical and Chemical Properties

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

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

#### 9.2. Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vollatility</strong></td>
<td>95</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**

#### 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**

#### 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 (vapours mg/l)  11.0

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.

### DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues

Acute toxicity - inhalation
ATE inhalation (vapours 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
FLEXANE PRIMER FL-20

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

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 label 3
IMDG class 3
ICAO class/division 3

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

No information required.

SECTION 15: Regulatory information

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

EU legislation


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 03/04/2018
Revision 10
Supersedes date 27/04/2017
Hazard statements in full
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H332 Harmful 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.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.