

# **ITW** Engineered Polymers

## SAFETY DATA SHEET FLEXANE GP PUTTY RESIN

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

#### 1.1. Product identifier

Product name FLEXANE GP PUTTY RESIN  
Product number X0025B

#### 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 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 Not Classified  
Health hazards Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351  
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R20. Carc. Cat. 3;R40. R42/43.

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

#### 2.2. Label elements

##### Pictogram



Signal word Danger

## FLEXANE GP PUTTY RESIN

<b>Hazard statements</b>	H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H351 Suspected of causing cancer.
<b>Precautionary statements</b>	P261 Avoid breathing vapour/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
<b>Contains</b>	DIPHENYLMETHANE-4,4'-DI-ISOCYANATE, 4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)
<b>Supplementary precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P272 Contaminated work clothing should not be allowed out of the workplace. P308+P313 IF exposed or concerned: Get medical advice/attention. P321 Specific treatment (see medical advice on this label). P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P405 Store locked up. 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

<b>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</b>		<b>1-2%</b>
CAS number: 101-68-8	EC number: 202-966-0	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H332	Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43	
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		
<b>4,4'-METHYLENEDI(CYCLOHEXYL ISOCYANATE)</b>		<b>1-2%</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		

# FLEXANE GP PUTTY RESIN

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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.
<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.

### 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.
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### 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.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide or dry powder.
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### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Avoid breathing fire gases or vapours.
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### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Keep up-wind to avoid fumes. 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>	Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet.
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### 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.
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### 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.
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## FLEXANE GP PUTTY RESIN

### 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 ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid contact with skin and eyes. No smoking, sparks, flames or other sources of ignition near spillage. 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.

#### 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

##### DIPHENYLMETHANE-4,4'-DI-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)

##### 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

**Ingredient comments** WEL = Workplace Exposure Limits

#### 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

The following protection should be worn: Chemical splash goggles or face shield.

##### Hand protection

Wear protective gloves made of the following material: Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).

##### 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. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

##### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

## FLEXANE GP PUTTY RESIN

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	Clear liquid.
<b>Odour</b>	Musty (mouldy).
<b>pH</b>	pH (concentrated solution): 7-8 @ 20 °C
<b>Initial boiling point and range</b>	>204°C @
<b>Flash point</b>	233.89°C
<b>Vapour pressure</b>	<10mmHg @ °C
<b>Vapour density</b>	8.5
<b>Relative density</b>	1.1 @ 25 °C°C
<b>Solubility(ies)</b>	Insoluble in water.
<b>Viscosity</b>	7,600-11,200 mPa s @ 25°C

#### 9.2. Other information

<b>Other information</b>	Not available.
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Oxidising materials. Reacts strongly with water.
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#### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
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#### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not available.
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#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	Avoid contact with strong oxidising agents. Water, moisture.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Fire or high temperatures create: Nitrous gases (NO <sub>x</sub> ). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Vapours/gases/fumes of: Ammonia or amines.
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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - inhalation

<b>ATE inhalation (gases ppm)</b>	30,420.09
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<b>ATE inhalation (vapours mg/l)</b>	118.32
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## FLEXANE GP PUTTY RESIN

**ATE inhalation (dusts/mists mg/l)** 18.82

**Inhalation** Harmful by inhalation. May cause sensitisation by inhalation.

**Skin contact** Irritating to skin. May cause sensitisation by skin contact. May cause sensitisation or allergic reactions in sensitive individuals. Prolonged contact may cause redness, irritation and dry skin.

**Eye contact** Irritating to eyes.

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

### SECTION 12: Ecological Information

**Ecotoxicity** Avoid release to the environment. Avoid or minimise the creation of any environmental contamination. Do not discharge into drains or watercourses or onto the ground.

#### 12.1. Toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.2mg/l mg/l, Fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >500mg/l mg/l, Daphnia magna

#### 12.2. Persistence and degradability

**Persistence and degradability** Assessment of biological degradability (Closed-Bottle Test) 60 %.

#### 12.3. Bioaccumulative potential

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

#### 12.4. Mobility in soil

**Mobility** Not considered mobile.

#### 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

### SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

#### 14.1. UN number

## FLEXANE GP PUTTY RESIN

No information required.

**UN No. (IMDG)**

**UN No. (ICAO)**

### **14.2. UN proper shipping name**

No information required.

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

No information required.

### **14.4. Packing group**

No information required.

### **14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant**

No.

### **14.6. Special precautions for user**

No information required.

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

**Transport in bulk according to** No information required.

**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** 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 1

### **15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

**Revision date** 19/05/2015

**Revision** 13

**Supersedes date** 04/12/2013

**Risk phrases in full** R20 Harmful by inhalation.  
R23 Toxic by inhalation.  
R36/37/38 Irritating to eyes, respiratory system and skin.  
R40 Limited evidence of a carcinogenic effect.  
R42/43 May cause sensitisation by inhalation and skin contact.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

## FLEXANE GP PUTTY RESIN

### Hazard statements in full

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

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.

# **ITW** Engineered Polymers

## SAFETY DATA SHEET FLEXANE GP PUTTY HARDENER

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

#### 1.1. Product identifier

**Product name** FLEXANE GP PUTTY HARDENER  
**Product number** X0025BB

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

**Identified uses** Hardener.

#### 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** Not Classified  
**Health hazards** Acute Tox. 4 - H302 Eye Irrit. 2 - H319 STOT RE 2 - H373  
**Environmental hazards** Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**Classification (67/548/EEC or 1999/45/EC)** Xn;R21/22,R48/22. Xi;R36. N;R50/53.

#### 2.2. Label elements

##### Pictogram



##### Signal word

Warning

##### Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.  
H302 Harmful if swallowed.

## FLEXANE GP PUTTY HARDENER

<b>Precautionary statements</b>	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.</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>P314 Get medical advice/attention if you feel unwell.</p>
<b>Contains</b>	DIETHYLMETHYLBENZENEDIAMINE
<b>Supplementary precautionary statements</b>	<p>P260 Do not breathe vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P270 Do not eat, drink or smoke when using this product.</p> <p>P330 Rinse mouth.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P391 Collect spillage.</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>DIETHYLMETHYLBENZENEDIAMINE</b>		<b>30-60%</b>
CAS number: 68479-98-1	EC number: 270-877-4	
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H302	Xn;R21/22,R48/22 Xi;R36 N;R50/53	
Acute Tox. 4 - H312		
Eye Irrit. 2 - H319		
STOT RE 2 - H373		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
<b>CARBON BLACK</b>		<b>1-5%</b>
CAS number: 1333-86-4		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Not Classified	-	

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>	Avoid contact with skin and eyes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

## FLEXANE GP PUTTY HARDENER

**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

**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** Irritating gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Do not use water jet as an extinguisher, as this will spread the fire. 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** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Do not breathe vapour.

### 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** Avoid contact with skin and eyes. Handle and open container with care. Use only in well-ventilated areas. 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

## FLEXANE GP PUTTY HARDENER

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

### 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

#### **CARBON BLACK**

Long-term exposure limit (8-hour TWA): 3.5 mg/m<sup>3</sup>

**Ingredient comments** No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



#### **Appropriate engineering controls**

Provide adequate general and local exhaust ventilation.

#### **Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

#### **Hand protection**

Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. It is recommended that gloves are made of the following material: Neoprene.

#### **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. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using the product.

#### **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>	Clear liquid.
<b>Odour</b>	Slight pungent.
<b>pH</b>	pH (concentrated solution): 8.5 @ 20 °C
<b>Melting point</b>	n/d°C
<b>Initial boiling point and range</b>	308°C @
<b>Flash point</b>	168°C
<b>Relative density</b>	1.08 @ 20 °C°C
<b>Solubility(ies)</b>	Slightly soluble in water.

## FLEXANE GP PUTTY HARDENER

**Viscosity** 144-280 mPa s @ 25°C

### 9.2. Other information

**Other information** Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Acids. Strong oxidising agents.

### 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.

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with the following materials: Acids. Oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Fire or high temperatures create: Nitrous gases (NO<sub>x</sub>). Oxides of the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Vapours/gases/fumes of: Ammonia or amines.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 1,268.13

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 2,789.9

**Inhalation** Irritating to respiratory system. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

**Ingestion** Harmful if swallowed.

**Skin contact** Irritating to skin. Harmful in contact with skin.

**Eye contact** Irritating to eyes.

## SECTION 12: Ecological Information

**Ecotoxicity** Avoid releasing into the environment. The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

### 12.1. Toxicity

**Toxicity** Very toxic to aquatic organisms.

### 12.2. Persistence and degradability

## FLEXANE GP PUTTY HARDENER

**Persistence and degradability** The product is not readily biodegradable.

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

**Mobility** Not considered mobile.

### 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

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

**UN No. (ICAO)** 3082

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(DIETHYLMETHYLBENZENEDIAMINE, PROPYLENE GLYCOL DIBENZOATE)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(DIETHYLMETHYLBENZENEDIAMINE, PROPYLENE GLYCOL DIBENZOATE)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(DIETHYLMETHYLBENZENEDIAMINE, PROPYLENE GLYCOL DIBENZOATE)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(DIETHYLMETHYLBENZENEDIAMINE, PROPYLENE GLYCOL DIBENZOATE)

### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**ADR/RID subsidiary risk**

**ADR/RID label** 9

**IMDG class** 9

**IMDG subsidiary risk**

**ICAO class/division** 9

## FLEXANE GP PUTTY HARDENER

### ICAO subsidiary risk

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

#### 14.5. Environmental hazards

##### Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

EmS F-A, S-F

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

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

### SECTION 15: Regulatory information

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

**EU legislation** 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 19/05/2015

Revision 7

Supersedes date 07/07/2011

## FLEXANE GP PUTTY HARDENER

### Risk phrases in full

NC Not classified.

R21/22 Harmful in contact with skin and if swallowed.

R36 Irritating to eyes.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard statements in full

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very 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.