SAFETY DATA SHEET
GFR Fluid Rubber Comp B

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

1.1. Product identifier

Product name                   GFR Fluid Rubber Comp B
Product number                 X0145

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

Identified uses                Two-component, epoxy-based adhesive.

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@itwp.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               Not Classified
Environmental hazards          Not Classified

2.2. Label elements

Pictogram

Signal word                   Danger
GFR Fluid Rubber Comp B

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF exposed or concerned: Get medical advice/attention.

Supplemental label information
EUH204 Contains isocyanates. May produce an allergic reaction.

Contains
DIPHENYLmethanediisocyanate -isomers & homologues, DIPHENYLmethane-4,4'-diisocyanate, DIPHENYLmethane-2,4'-diisocyanate

Supplementary precautionary statements
P201 Obtain special instructions before use.
P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
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
### DIPHENYLMETHANEDIISOCYANATE - Isomers & homologues

**CAS number:** 9016-87-9

<table>
<thead>
<tr>
<th>Classification</th>
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<tbody>
<tr>
<td>Acute Tox. 2 - H330</td>
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<tr>
<td>Skin Irrit. 2 - H315</td>
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<tr>
<td>Eye Irrit. 2 - H319</td>
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<tr>
<td>Resp. Sens. 1 - H334</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
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<tr>
<td>Carc. 2 - H351</td>
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<tr>
<td>STOT SE 3 - H335</td>
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<td>STOT RE 2 - H373</td>
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**Percentage:** 10-30%

### DIPHENYL METHANE-4,4’-DI-ISOCYANATE

**CAS number:** 101-68-8  
**EC number:** 202-966-0

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**Percentage:** 5-10%

### DIPHENYL METHANE-2,4’-DI-ISOCYANATE

**CAS number:** 5873-54-1  
**EC number:** 227-534-9

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<td>STOT SE 3 - H335</td>
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<td>STOT RE 2 - H373</td>
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**Percentage:** 1-5%

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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**  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Inhalation**  
If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
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Ingestion
Do not induce vomiting. Give plenty of water to drink. Get medical attention.

Skin contact
Remove affected person from source of contamination. Wash skin thoroughly 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. 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 the following media: Dry chemicals. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Specific hazards
In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

Protective actions during firefighting
Do not use water jet as an extinguisher, as this will spread the fire.

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
Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions
Avoid the spillage or runoff entering drains, sewers or watercourses. 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
Use only in well-ventilated areas. Keep away from heat, sparks and open flame. Open drum carefully as content may be under pressure. 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.
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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).

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

DIPHENYLMETHANEDIISOCYANATE -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)

DIPHENYLMETHANE-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)

DIPHENYLMETHANE-2,4′-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
No exposure limits known for ingredient(s).

DIPHENYLMETHANE-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: Butyl rubber. 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 apron or protective clothing in case of contact.

Hygiene measures
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. Change work clothing daily before leaving workplace.
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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

Appearance
Liquid.

Colour
Brown.

Odour
Musty (mouldy).

Flash point
>200°C

Relative density
1.12 - 1.22 @ @ 20 ºC

Solubility(ies)
Insoluble in water.

Auto-ignition temperature
>400°C

9.2. Other information

Other information
Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity
Alcohols, glycols, Amines.

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 temperatures above 50°C

10.5. Incompatible materials

Materials to avoid
Avoid contact with the following materials: Water, moisture, Alcohols, glycols, Amines.

10.6. Hazardous decomposition products

Hazardous decomposition products
Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 3,126.0

Inhalation
Irritating to respiratory system. May cause sensitisation by inhalation.

Skin contact
Irritating to skin. May cause sensitisation by skin contact.
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Eye contact Irritating to eyes.
Route of entry Inhalation Ingestion.

SECTION 12: Ecological information

Ecotoxicity Avoid or minimise the creation of any environmental contamination.
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 Waste should be treated as controlled waste. 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
No information required.
14.2. UN proper shipping name
No information required.
14.3. Transport hazard class(es)
Transport labels No transport warning sign 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 MARPOL 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


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision date 26/04/2018
Revision 9
Supersedes date 21/07/2015

Hazard statements in full

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.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
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.