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

1.1. Product identifier

Product name
INSULCURE 11B PT B

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

Identified uses
Casting compound

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
Not Classified

Health hazards
Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards
Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram

Signal word
Danger

Hazard statements
H302 Harmful if swallowed.
H311+H331 Toxic in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.
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Precautionary statements

P260 Do not breathe vapour/spray.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.

Contains

2,2'-DIMETHYL-4,4'-METHYLENEBIS(CYCLOHEXYLAMINE), 2-ETHYL-4-
METHYLIMIDAZOLE, 4-Methylimidazole

Supplementary precautionary statements

P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P311 Call a POISON CENTER/doctor.
P312 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>2,2'-DIMETHYL-4,4'-METHYLENEBIS(CYCLOHEXYLAMINE)</th>
<th>60-100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 6864-37-5</td>
<td>EC number: 229-962-1</td>
</tr>
</tbody>
</table>

Classification

Acute Tox. 4 - H302
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1A - H314
Eye Dam. 1 - H318
Aquatic Chronic 2 - H411
INSULCURE 11B PT B

2-ETHYL-4-METHYLMIDAZOLE
CAS number: 931-36-2
1-5%

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1B - H317

4-Methylimidazole
CAS number: 822-36-6
<1%

Classification
Acute Tox. 4 - H302
Acute Tox. 3 - H311
Skin Corr. 1B - H314
Carc. 2 - H351

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
Immediate first aid is imperative. Remove contaminated clothing. First aid personnel should wear appropriate protective equipment during any rescue.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary.

Ingestion
Get medical attention immediately. 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.

Skin contact
It is important to remove the substance from the skin immediately. Remove contaminated clothing and rinse skin thoroughly with water. Chemical burns must be treated by a physician. Get medical attention if irritation persists after washing.

Eye contact
Get medical attention immediately. Continue to rinse for at least 15 minutes and get medical attention. Remove any contact lenses and open eyelids wide apart.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.

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.

Inhalation
Toxic by inhalation.

Ingestion
This product is corrosive. Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach. May cause severe internal injury.

Skin contact
Toxic in contact with skin. Corrosive to skin and eyes. Causes burns. Allergic rash.

Eye contact
This product is corrosive. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

4.3. Indication of any immediate medical attention and special treatment needed
SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Use alcohol-resistant foam, carbon dioxide or dry powder to extinguish. Water spray, fog or mist.

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting
In case of fire: Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

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
Keep unnecessary and unprotected personnel away from the spillage. Avoid inhalation of vapours and contact with skin and eyes. Avoid contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions
Avoid release to the environment. To prevent release, place container with damaged side up. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up
Stop leak if safe to do so. Move containers from spillage area. Provide adequate ventilation. Small Spillages: Wipe up with an absorbent cloth and dispose of waste safely. Large Spillages: Absorb spillage with non-combustible, absorbent material. Contain spillage with sand, earth or other suitable non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections
For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Restricted to professional users. Do not handle until all safety precautions have been read and understood. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not breathe vapour/spray. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Eye wash facilities and emergency shower must be available when handling this product.
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Advice on general occupational hygiene
Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse. Wash after use and before eating, smoking and using the toilet.

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 locked up. Store away from incompatible materials (see Section 10).

Storage class
Toxic storage. Corrosive storage.

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

Usage description
Provide adequate ventilation.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Appropriate engineering controls
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Provide adequate general and local exhaust ventilation. Mechanical ventilation or local exhaust ventilation may be required. Avoid inhalation of vapours.

Personal protection
Do not breathe vapour/spray.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Wear tight-fitting, chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. 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. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures
Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Promptly remove any clothing that becomes wet or contaminated.

Respiratory protection
Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. 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
Amber.

Odour
Amine.

Flash point
> 93.3°C
INSULCURE 11B PT B

Relative density 0.95

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity Stable at normal ambient temperatures and when used as recommended.

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 Will not polymerise.

10.4. Conditions to avoid
Conditions to avoid Keep away from heat, sparks and open flame. Avoid contact with the following materials: Strong oxidising agents.

10.5. Incompatible materials
Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products
Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity - oral
ATE oral (mg/kg) 5,618.0

Acute toxicity - dermal
ATE dermal (mg/kg) 34,924.0

Acute toxicity - inhalation
ATE inhalation (gases ppm) 82,353.0
ATE inhalation (vapours mg/l) 353.0
ATE inhalation (dusts/mists mg/l) 59.0

Inhalation Toxic if inhaled.
Ingestion Harmful if swallowed. May cause chemical burns in mouth, oesophagus and stomach.
Skin contact Toxic in contact with skin. Causes severe burns.
Eye contact Causes serious eye damage.

SECTION 12: Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity
Toxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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12.2. Persistence and degradability
Persistence and degradability  No data available.

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

12.4. Mobility in soil
Mobility  No data recorded.

12.5. Results of PBT and vPvB assessment
Results of PBT and vPvB assessment  Not determined.

12.6. Other adverse effects
Other adverse effects  None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
General information  Dispose of waste via a licensed waste disposal contractor. Dispose of waste product or used containers in accordance with local regulations. This material and its container must be disposed of as hazardous waste.

Disposal methods  Dispose of this material and its container to hazardous or special waste collection point. Dispose of waste via a licensed waste disposal contractor. Dispose of waste product or used containers in accordance with local regulations.

Waste class  08 04 99

SECTION 14: Transport information

14.1. UN number
UN No. (ADR/RID)  2922
UN No. (IMDG)  2922
UN No. (ICAO)  2922
UN No. (ADN)  2922

14.2. UN proper shipping name
Proper shipping name (ADR/RID)  CORROSIVE LIQUID, TOXIC, N.O.S. (Cycloaliphatic amines)
Proper shipping name (IMDG)  CORROSIVE LIQUID, TOXIC, N.O.S. (Cycloaliphatic amines)
Proper shipping name (ICAO)  CORROSIVE LIQUID, TOXIC, N.O.S. (Cycloaliphatic amines)
Proper shipping name (ADN)  CORROSIVE LIQUID, TOXIC, N.O.S. (Cycloaliphatic amines)

14.3. Transport hazard class(es)
ADR/RID class  8
ADR/RID subsidiary risk  6.1
ADR/RID classification code  CT1
ADR/RID label  8
IMDG class  8
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IMDG subsidiary risk  6.1
ICAO class/division  8
ICAO subsidiary risk  6.1
ADN class  8
ADN subsidiary risk  6.1

Transport labels

14.4. Packing group
ADR/RID packing group  II
IMDG packing group  II
ADN packing group  II
ICAO packing group  II

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user
EmS  F-A, S-B
ADR transport category  2
Emergency Action Code  2X
Hazard Identification Number (ADR/RID)  86
Tunnel restriction code  (E)

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

SECTION 15: Regulatory information

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

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date  04/04/2018
Revision  3
Supersedes date  29/04/2016
SDS number  20691
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Hazard statements in full

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H351 Suspected of causing cancer.
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.