SAFETY DATA SHEET
ULTRATHANE 5410B NEUTRAL

1. Identification

Product identifier

Product name       ULTRATHANE 5410B NEUTRAL
Product number     05410B50A

Recommended use of the chemical and restrictions on use

Application     coating

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

Emergency telephone number

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

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards          Not Classified
Health hazards             STOT RE 2 - H373
Environmental hazards      Aquatic Chronic 2 - H411

Label elements

Pictogram

Signal word       Warning

Hazard statements
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P260 Do not breathe vapor/spray.
P273 Avoid release to the environment.
P314 Get medical advice/attention if you feel unwell.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with national regulations.
ULTRATHANE 5410B NEUTRAL

Contains

DIETHYLMETHYLBENZENEDIAMINE

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>CAS number: 68479-98-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>M factor (Acute) = 1</td>
</tr>
<tr>
<td>M factor (Chronic) = 1</td>
</tr>
</tbody>
</table>

Classification

Acute Tox. 4 - H302
Acute Tox. 4 - H312
Eye Irrit. 2 - H319
STOT RE 2 - H373
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

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

4. First-aid measures

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
Move affected person to fresh air at once. 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.

Ingestion
Do not induce vomiting. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention. Show this Safety Data Sheet to the medical personnel.

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 and get medical attention. Get medical attention if irritation persists after washing.

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.

Indication of immediate medical attention and special treatment needed

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

5. Fire-fighting measures

Extinguishing media

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

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

Specific hazards arising from the substance or mixture

Specific hazards
Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3.
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Advice for firefighters

Protective actions during firefighting
Avoid breathing fire gases or vapors. Keep up-wind to avoid fumes. 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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate.

Environmental precautions
Avoid or minimize the creation of any environmental contamination. Do not discharge into drains or watercourses or onto the ground. Collect and dispose of spillage as indicated in Section 13. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

Methods and material for containment and cleaning up

Methods for cleaning up
Absorb spillage with sand or other inert absorbent. Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Contain spillage with sand, earth or other suitable non-combustible material.

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

7. Handling and storage

Precautions for safe handling

Usage precautions
Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. 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.

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).

Specific end uses(s)

Specific end use(s)
The identified uses for this product are detailed in Section 1.

8. Exposure Controls/personal protection

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
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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. Personal protective equipment for eye and face protection should comply with OSHA 1910.133.

Hand protection
It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). To protect hands from chemicals, gloves should comply with OSHA 1910.138 and be demonstrated to be impervious to the chemical and resist degradation. 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. 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.

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 OSHA 1910.134.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>White/off-white.</td>
</tr>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>260-312.78°C @</td>
</tr>
<tr>
<td>Flash point</td>
<td>135°C COC (Cleveland open cup).</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt;1 (ethanol = 1)</td>
</tr>
<tr>
<td>Upper/lower flammability or</td>
<td>Not available.</td>
</tr>
<tr>
<td>explosive limits</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>1.86 kPa @ °C</td>
</tr>
<tr>
<td>Vapor density</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.04 @ 25 ºC°C</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Volatility</td>
<td>0.3</td>
</tr>
<tr>
<td>Volatile organic compound</td>
<td>This product contains a maximum VOC content of 2.1 g/litre.</td>
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</table>

10. Stability and reactivity

Reactivity
Strong oxidizing agents.

Stability
Stable at normal ambient temperatures and when used as recommended.
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Possibility of hazardous reactions
Not available.

Conditions to avoid
Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods
of time. Avoid exposure to high temperatures or direct sunlight. Strong oxidizing agents.

Materials to avoid
Avoid contact with oxidizing agents.

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

11. Toxicological Information

Information on toxicological effects

Acute toxicity - oral
ATE oral (mg/kg) 2,810.57

Acute toxicity - dermal
ATE dermal (mg/kg) 6,183.25

Inhalation
Vapors may irritate throat/respiratory system. Symptoms following overexposure may include
the following: Headache. Dizziness. Drowsiness.

Ingestion
Harmful if swallowed. Gastrointestinal symptoms, including upset stomach.

Skin Contact
Irritating to skin. Prolonged and frequent contact may cause redness and irritation.

Eye contact
May cause severe eye irritation. Visual disturbances, including blurred vision.

Route of entry
Inhalation Ingestion. Skin and/or eye contact

12. Ecological Information

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

Toxicity
Very toxic to aquatic organisms.

Persistence and degradability

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

Bioaccumulative potential

Bio-Accumulative Potential
No data available on bioaccumulation.

Mobility in soil

Mobility
Avoid or minimize the creation of any environmental contamination. Do not discharge into
drains or watercourses or onto the ground.

Other adverse effects

Other adverse effects
Not available.

13. Disposal considerations

Waste treatment methods

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

<table>
<thead>
<tr>
<th>14. Transport information</th>
</tr>
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<table>
<thead>
<tr>
<th>UN Number</th>
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<tbody>
<tr>
<td>UN No. (TDG)</td>
</tr>
<tr>
<td>UN No. (IMDG)</td>
</tr>
<tr>
<td>UN No. (ICAO)</td>
</tr>
<tr>
<td>UN No. (DOT)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name (TDG)</td>
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<tr>
<td>Proper shipping name (ICAO)</td>
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<tr>
<td>Proper shipping name (DOT)</td>
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<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
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</thead>
<tbody>
<tr>
<td>TDG class</td>
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<tr>
<td>TDG label(s)</td>
</tr>
<tr>
<td>IMDG Class</td>
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<tr>
<td>ICAO class/division</td>
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</table>

Transport labels

Packing group
| IMDG packing group | III |
| ICAO packing group | III |

Environmental hazards

Environmentally Hazardous Substance

Special precautions for user
EmS | F-A, S-F |

15. Regulatory information
# ULTRATHANE 5410B NEUTRAL

## 16. Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>4/5/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>16</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>4/29/2016</td>
</tr>
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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.
- 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.