SAFETY DATA SHEET
POLYETHER URETHANE 5604A

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: POLYETHER URETHANE 5604A

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: ELECTROLUBE. A division of HK WENTWORTH LTD
ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE
LE65 1JR
UNITED KINGDOM
+44 (0)1530 419600
+44 (0)1530 416640
info@hkw.co.uk

1.4. Emergency telephone number
+44 (0)1530 419600 between 8.30am - 5.00pm Mon – Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.2. Label elements
Risk Phrases: NC

2.3. Other hazards
Not classified.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>Polypropylene glycol</th>
<th>10-30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS-No.: 25322-69-4</td>
<td>EC No.:</td>
</tr>
<tr>
<td>Classification (EC 1272/2008)</td>
<td>Classification (67/548/EEC)</td>
</tr>
<tr>
<td>Acute Tox. 4 - H302</td>
<td>Xn;R22.</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures
POLYETHER URETHANE 5604A

Inhalation
Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion
DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

Skin contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

Eye contact
Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

Ventilate well. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Persons susceptible to allergic reactions should not handle this product.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.2. Exposure controls

Protective equipment

Process conditions
Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

Engineering measures
Provide sufficient ventilation during operations which cause vapour formation. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory equipment
Respiratory protection must be used if air contamination exceeds acceptable level. It is recommended to use respiratory equipment with combination filter, type A2/R2. EN14387. When spraying use suitable air-supplied respirator.

Hand protection
Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves should conform to EN374.

Eye protection
Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166.

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

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### 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>Appearance</td>
<td>Viscous</td>
</tr>
<tr>
<td>Colour</td>
<td>Black</td>
</tr>
<tr>
<td>Odour</td>
<td>Aromatic</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&gt;250 (482 F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.62 @ 20 ºC (68F)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>9600 mPas @ 25 ºC (77 F)</td>
</tr>
</tbody>
</table>

9.2. Other information

### SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

No incompatible groups noted.

10.6. Hazardous decomposition products

High temperatures generate: Irritating gases/vapours/fumes of: Carbon dioxide (CO2). Carbon monoxide (CO).

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

No information available.

Other Health Effects

This substance has no evidence of carcinogenic properties.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Irritating to skin. May cause skin irritation/eczema.
POLYETHER URETHANE 5604A

Eye contact
Irritating to eyes.

Health Warnings
No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

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

Road Transport Notes
Not Classified

Rail Transport Notes
Not classified.

Sea Transport Notes
Not classified.

Air Transport Notes
Not classified.

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)
ADR/RID/ADN Class
Not classified for transportation.

Transport Labels
No transport warning sign required.

14.4. Packing group

14.5. Environmental hazards
Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
POLYETHER URETHANE 5604A

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

Environmental Listing

Approved Code Of Practice
Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments
Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC
Issued By Helen O'Reilly
Revision Date NOVEMBER 2012
Revision 1
SDS No. 10892

Risk Phrases In Full
R22 Harmful if swallowed.
NC Not classified.

Hazard Statements In Full
H302 Harmful if swallowed.

Disclaimer
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.
SAFETY DATA SHEET
POLYETHER URETHANE 5604B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: POLYETHER URETHANE 5604B

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: Resin.
Uses advised against: At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet
Supplier: ELECTROLUBE. A division of HK WENTWORTH LTD
Address: ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR UNITED KINGDOM
Phone: +44 (0)1530 419600
Fax: +44 (0)1530 416640
Email: info@hkw.co.uk

1.4. Emergency telephone number
+44 (0)1530 419600 between 8.30am - 5.00pm Mon – Fri

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (1999/45/EEC): Xn;R20, R48/20. Carc. Cat. 3;R40, Repr. Cat. 3;R62, R63. R42/43. Xi;R36/37/38. N;R51/53.

Environment:
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Use appropriate containment to avoid environmental contamination. Avoid release to the environment. Refer to special instructions/safety data sheets. Dispose of waste and residues in accordance with local authority requirements.

2.2. Label elements
Contains:
TRIARYL PHOSPHATES Isopropylated
DIPHENYLMETHANE-4,4’-DI-ISOCYANATE
METHYLENEDIIPHENYL DIISOCYANATE

Labelling:
Harmful
Dangerous for the environment

Risk Phrases:
R20 Harmful 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.
POLYETHER URETHANE 5604B

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.

**Safety Phrases**

S23 Do not breathe vapour/spray.
S25 Avoid contact with eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37 Wear suitable protective clothing and gloves.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S57 Use appropriate containment to avoid environmental contamination.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
P4 Contains isocyanates. See information supplied by the manufacturer.

2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

**TRIARYL PHOSPHATES Isopropylated**

<table>
<thead>
<tr>
<th>CAS-No.: 68937-41-7</th>
<th>EC No.: 273-066-3</th>
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</thead>
</table>

Classification (67/548/EEC): Repr. Cat. 3; R62, R63.

**DIPHENYLMETHANE-4,4'-DI-ISOCYANATE**

<table>
<thead>
<tr>
<th>CAS-No.: 101-68-8</th>
<th>EC No.: 202-956-0</th>
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</table>

Classification (67/548/EEC): Carc. Cat. 3; R40, Xn; R20, R48/20, Xi; R36/37/38, R42/43.

**METHYLENEDI-PHENYL DIISOCYANATE**

<table>
<thead>
<tr>
<th>CAS-No.: 26447-40-5</th>
<th>EC No.: 247-714-0</th>
</tr>
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Classification (67/548/EEC): Carc. Cat. 3; R40, Xn; R20, R48/20, Xi; R36/37/38, R42/43.
POLYETHER URETHANE 5604B

<table>
<thead>
<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
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</thead>
<tbody>
<tr>
<td>Acute Tox. 4 - H332</td>
<td>Carc. Cat. 3; R40</td>
</tr>
<tr>
<td>Skin Irrit. 2 - H315</td>
<td>Xn;R20,R48/20</td>
</tr>
<tr>
<td>Eye Irrit. 2 - H319</td>
<td>Xi;R36/37/38</td>
</tr>
<tr>
<td>Resp. Sens. 1 - H334</td>
<td>R42/43</td>
</tr>
<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
<tr>
<td>Carc. 2 - H351</td>
<td></td>
</tr>
<tr>
<td>STOT SE 3 - H335</td>
<td></td>
</tr>
<tr>
<td>STOT RE 2 - H373</td>
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</table>

TRIPHENYL PHOSPHATE 10-30%

<table>
<thead>
<tr>
<th>CAS-No.: 115-86-6</th>
<th>EC No.: 204-112-2</th>
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<tr>
<th>Classification (EC 1272/2008)</th>
<th>Classification (67/548/EEC)</th>
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<tbody>
<tr>
<td>Not classified.</td>
<td>N;R50/53.</td>
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</table>

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments
Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation
Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues. If respiratory problems, artificial respiration/oxygen. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.

Ingestion
DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

Skin contact
Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact
Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if any discomfort continues.

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

Inhalation.
May cause an asthma-like shortness of breath.

4.3. Indication of any immediate medical attention and special treatment needed

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

5.2. Special hazards arising from the substance or mixture

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

Unusual Fire & Explosion Hazards
Fire causes formation of toxic gases.

Specific hazards

5.3. Advice for firefighters
POLYETHER URETHANE 5604B

Special Fire Fighting Procedures
Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire.

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

When dealing with a spillage, please consult the section relating to suitable protective measures. Wear necessary protective equipment. Stop leak if possible without risk. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Persons with impaired lung functions should not handle this preparation. Persons susceptible to allergic reactions should not handle this product. Avoid forming spray/aerosol mists. Avoid inhalation of vapours/spray and contact with skin and eyes. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of vapours. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. 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)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>STD</th>
<th>TWA - 8 Hrs</th>
<th>STEL - 15 Min</th>
<th>Notes</th>
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<tbody>
<tr>
<td>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</td>
<td>WEL</td>
<td>0.02 mg/m3(Sen)</td>
<td>0.07 mg/m3(Sen)</td>
<td></td>
</tr>
<tr>
<td>METHYLENEDIIPHENYL DIISOCYANATE</td>
<td>WEL</td>
<td>0.02 mg/m3(Sen)</td>
<td>0.07 mg/m3(Sen)</td>
<td></td>
</tr>
<tr>
<td>TRIPHENYL PHOSPHATE</td>
<td>OES</td>
<td>3 mg/m3</td>
<td>6 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

WEL = Workplace Exposure Limit.

Ingredient Comments
WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective equipment

Process conditions
Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

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POLYETHER URETHANE 5604B

Engineering measures
Provide sufficient ventilation during operations which cause vapour formation. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment
Respiratory protection must be used if air contamination exceeds acceptable level. It is recommended to use respiratory equipment with combination filter, type А2/Р2. EN14387 When spraying use suitable air-supplied respirator.

Hand protection
Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Gloves should conform to EN374

Eye protection
Wear approved chemical safety goggles where eye exposure is reasonably probable. EN166

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

Hygiene measures
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

Environmental Exposure Controls
Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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>Appearance</td>
<td>Viscous Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Amber.</td>
</tr>
<tr>
<td>Odour</td>
<td>Musty (mouldy).</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>190 (374 F)</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>&lt;15 (59 F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.20 @ 20 °C (68 F)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>1200 kg/m3</td>
</tr>
<tr>
<td>Viscosity</td>
<td>50 mPas @ 25 °C (77 F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;190 (374 F) CC (Closed cup).</td>
</tr>
<tr>
<td>Auto Ignition Temperature (°C)</td>
<td>&gt;260 (500 F)</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations.

10.2. Chemical stability
Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions
Hazardous Polymerisation
Will not polymerise.

10.4. Conditions to avoid
Avoid heat, flames and other sources of ignition. Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations.

10.5. Incompatible materials
Materials To Avoid
Water, steam, water mixtures. Strong acids.

10.6. Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION
11.1. Information on toxicological effects

**Toxic Dose 1 - LD 50**
>2000 mg/kg (oral rat)

**Toxic Dose 2 - LD 50**
5000 mg/kg (ipr-rat)

**Toxic Conc. - LC 50**
490 mg/l/4h (inh-rat)

**Other Health Effects**

**General information**
No specific health warnings noted.

**Inhalation**
Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause sensitisation by inhalation.

**Ingestion**
May cause stomach pain or vomiting.

**Skin contact**
Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

**Eye contact**
Irritating to eyes.

**Toxicological information on ingredients.**

**METHYLENEDIIPHENYL DIISOCYANATE (CAS: 26447-40-5)**

**Toxic Dose 1 - LD 50**
5000 mg/kg (oral rat)

**Toxic Dose 2 - LD 50**
5000 mg/kg (ipr-rat)

**Toxic Conc. - LC 50**
370 mg/l/4h (inh-rat)

**TRIARYL PHOSPHATES Isopropylated (CAS: 68937-41-7)**

**Toxic Dose 1 - LD 50**
>5000 mg/kg (oral rat)

**TRIPHENYL PHOSPHATE (CAS: 115-86-6)**

**Toxic Dose 1 - LD 50**
>2000 mg/kg (oral-rbt)

**Toxic Dose 2 - LD 50**
>2000 mg/kg (oral-rbt)

**Toxic Conc. - LC 50**
>200 mg/l/4h (inh-rat)

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**
Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

**12.1. Toxicity**

**LC 50, 96 Hrs, Fish mg/l**
>1000

**Acute Toxicity - Fish**
LC0 96 hours > 1000 mg/l

**EC 50, 48 Hrs, Daphnia, mg/l**
>500

**Acute Toxicity - Aquatic Invertebrates**
EC0 > 500 mg/l Daphnia magna

**Acute Toxicity - Aquatic Plants**
EC0 72 hours 1640 mg/l Scenedesmus subspicatus
POLYETHER URETHANE 5604B

Ecological information on ingredients.

**METHYLENEDIIPHENYL DIISOCYANATE (CAS: 26447-40-5)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>LC 50, 96 Hrs, Fish mg/l</td>
<td>100</td>
</tr>
<tr>
<td>EC 50, 48 Hrs, Daphnia, mg/l</td>
<td>100</td>
</tr>
</tbody>
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**TRIARYL PHOSPHATES Isopropylated (CAS: 68937-41-7)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC 50, 96 Hrs, Fish mg/l</td>
<td>1.6</td>
</tr>
<tr>
<td>EC 50, 48 Hrs, Daphnia, mg/l</td>
<td>2.44</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

Degradability
The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential
The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

No information required.

### SECTION 13: DISPOSAL CONSIDERATIONS

**General information**
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**13.1. Waste treatment methods**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 14: TRANSPORT INFORMATION

**14.1. UN number**

<table>
<thead>
<tr>
<th>UN No. (ADR/RID/ADN)</th>
<th>UN No. (IMDG)</th>
<th>UN No. (ICAO)</th>
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</thead>
<tbody>
<tr>
<td>3082</td>
<td>3082</td>
<td>3082</td>
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</tbody>
</table>

**14.2. UN proper shipping name**

**Proper Shipping Name**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TRIPHENYL PHOSPHATE)

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

<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR/RID/ADN Class</td>
<td>Class 9: Miscellaneous dangerous substances and articles.</td>
</tr>
<tr>
<td>ADR Label No.</td>
<td>9</td>
</tr>
<tr>
<td>IMDG Class</td>
<td>9</td>
</tr>
<tr>
<td>ICAO Class/Division</td>
<td>9</td>
</tr>
</tbody>
</table>
| Transport Labels | }
POLYETHER URETHANE 5604B

14.4. Packing group

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 No. (ADR) 90
Tunnel Restriction Code (E)

14.7. Transport in bulk according to 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

Uk Regulatory References
Chemicals (Hazard Information & Packaging) Regulations.
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Environmental Listing

Guidance Notes
Workplace Exposure Limits EH40.

EU Legislation
Dangerous Substance Directive 67/548/EEC.
Dangerous Preparations Directive 1999/45/EC.
System of specific information relating to Dangerous Preparations. 2001/58/EC.


Health and Environmental Listings
None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)
No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)
No specific restrictions of use are noted for this product.
15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments
Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC
Issued By Helen O'Reilly
Revision Date NOVEMBER 2012
Revision 2
SDS No. 10894

Risk Phrases in Full
R20 Harmful by inhalation.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through 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.
R63 Possible risk of harm to the unborn child.
R62 Possible risk of impaired fertility.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements in Full
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H322 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.
H361f Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Disclaimer
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.