Chemical Manufacturing Co. Ltd.

C.O.S.H.H.H. PACK

TIMBER PRESERVATION
AND
REPAIR
SECTION 2 :

TIMBER PRESERVATION AND REPAIR.

PRESERVATION.

- TRIBOR PLUS
- TRIBOR 10
- TRIBOR 20
- TRIBOR GEL
- TRITEC 120
- TRITEC 120 PLUS
- TRITEC 121
- TRITEC 121 PLUS
- TRIMETHRIN OS PLUS
- TRISOL 23
- TRIPASTE PB

REPAIR.

- TRIMOL 15, 34, 35, 36, 40, 41 – Resin
- TRIMOL 15, 34, 35, 36 – Hardener
- TRIMOL 35 & 36 – Filler
  - TRIMOL 54 - Hardener
  - TRIMOL 54 - Resin
1. PRODUCT NAME: **TRIBOR PLUS**  
HSE No. 7549

2. COMPOSITION  
<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octoborate Tetrahydrate</td>
<td>12280-03-04</td>
<td>20</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>27.1</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene Glycol and other inert materials</td>
<td>107-21-1</td>
<td>45</td>
<td>Xn,Harmful</td>
<td>R22</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>0.4</td>
<td>Xn, Harmful</td>
<td>R22</td>
</tr>
<tr>
<td>Isononyl Phenyl Ethoxylate</td>
<td>37205-87-1</td>
<td>4.0</td>
<td>Xn, Harmful</td>
<td>R22-41-53</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION  
Irritating to eyes and skin.  
Harmful if swallowed

4. FIRST AID  
**CONTACT WITH SKIN** Wash with plenty of water or soap and water.

**CONTACT WITH EYES** Wash out with water for several minutes. Seek medical advice.

**INGESTION** Wash out mouth with water and give water to drink. Do not induce vomiting. If patient feels unwell, seek medical attention.

**INHALATION** Remove to fresh air.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES  
**SUITABLE EXTINGUISHING MEDIA** As appropriate to surrounding fire

**SPECIAL PROTECTIVE EQUIPMENT** No particular requirements

6. ACCIDENTAL RELEASE MEASURES  
**PERSONAL PRECAUTIONS** Wear respiratory protection if large amounts of dust are generated.

**ENVIRONMENTAL PRECAUTIONS** No environment hazard.

**CLEAN-UP PROCEDURES** Sweep up and place in container for re-use or disposal to landfill.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Observe normal industrial hygiene methods.

STORAGE INFORMATION
Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves, (neoprene/PVC or synthetic rubber). Eye/face protection to BS2092 for chemical resistance and coveralls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with P2 or P3 cartridge.

Engineering controls of operator exposure may replace PPE if it provides equal or a higher degree of protection (ie. Local exhaust ventilation, non-atomising spray etc.).

Wash hands and skin before and after work. Do not apply to surfaces where food is prepared, stored or eaten. Remove or cover all foodstuffs before application. Do not apply to hot surfaces or unprotected electrical equipment or naked flames. Keep unprotected persons and animals away from treated surfaces for 48 hours or until surfaces are dry or covered. Avoid excessive contamination of coveralls and launder regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cloudy, pale gel</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>9 (1% in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;190°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt;370°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>LEL s.6%, UEL 12.5%</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>30Pa (25°C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1200kg/m³</td>
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<tr>
<td>Bulk density</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
Protect from moisture (product is hygroscopic)

MATERIALS TO AVOID
Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Low acute oral toxicity LD₅₀ (by calculation) >5000mg/kg
12. ECOLOGICAL INFORMATION

MOBILITY Mobile in the soil.

DEGRADABILITY Not biodegradable

ACCUMULATION There is a likelihood of bioaccumulation or biomagnification.

ECTOTOXICITY Boron is an essential micronutrient for plant life, but phytotoxic in large amounts.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Dispose of by landfill in a commercial site, in accordance with local and national regulations.

DISPOSAL OF PACKAGING: As for product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15. REGULATORY INFORMATION

CLASSIFICATION Harmful if swallowed.

This product is approved under the control of pesticides regulations 1986 for use by Professional Operators as directed. HSE No. 7549.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

TRIBOR 10  
Material Safety Data Sheet  
According to 93/112EC

Triton Chemical Manufacturing Co.Ltd.  
129 Felixstowe Rd, Abbey Wood, London SE2 9SG  
Telephone: 020 8310 3929  
Fax: 020 8312 0349

MSDS Ref: TR  
Publication date: 13/07/99  
Revision date: 17/02/04

1. PRODUCT NAME: TRIBOR 10  
HSE NO. 7915

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
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</thead>
<tbody>
<tr>
<td>Disodium octaborate tetrahydrate</td>
<td>12280-03-04</td>
<td>-03-04</td>
<td>10%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylene glycol</td>
<td>107-21-1</td>
<td>-21-1</td>
<td>20%</td>
<td>Xn, Harmful</td>
<td>R22</td>
</tr>
<tr>
<td>Benzalkonium Chloride</td>
<td>61789-71-9</td>
<td>-71-9</td>
<td>2%</td>
<td>Xn, Harmful</td>
<td>R22,R34</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritating to eyes and skin

4. FIRST AID

SWALLOWING  
Rinse mouth and administer 1 pint warm water (cold if not available).  
Do not induce vomiting - seek medical attention immediately.  
Never administer anything by mouth to an unconscious person.  
See also section 11.

EYES  
Flush with plenty of water for at least 15 minutes.  
Seek medical attention if irritation persists.

INHALATION  
Remove patient to fresh air, keep warm and at rest.  
Seek medical attention immediately.

SKIN  
Remove contaminated clothing and wash affected areas with soap and water.  
Launder contaminated clothing before re-use.  
If irritation persists, consult a doctor.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA  
Product is non-combustible.  
Essentially an aqueous solution.

PPE: FIRE  
Neoprene/PVC or synthetic gloves, chemical resistant boots and clothing.  
Breathing apparatus in the event of smoke inhalation.  
(Contd.)
5. FIRE FIGHTING MEASURES (cont'd)

PRODUCTS OF COMBUSTION
Exposure to extreme heat may liberate water vapour with trace quantities of Hydrogen Chloride and Oxides of Nitrogen and Carbon.

PPE: SPILLAGE
Neoprene/PVC or synthetic rubber gloves and eye/face protection and chemical resistant boots.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Where possible shut off or remove source of leak. Absorb spillage with sand/sawdust or vermiculite and place into suitable HDPE/plastic drum. Seal and mark with contents to await disposal. Wash down with copious water.

If product has entered watercourses or ditches inform Police or Fire Brigade.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Wear suitable gloves, overalls and eye/face protection. Keep out of reach of children. When using, do not eat, drink or smoke.

STORAGE INFORMATION
Store in safe, cool, dry conditions, away from food, drink and animal foodstuffs. Store only in original container, tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves, (neoprene/PVC or synthetic rubber). Eye/face protection to BS2092 for chemical resistance and coveralls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with P2 or P3 cartridge.

Engineering controls of operator exposure may replace PPE if it provides equal or a higher degree of protection (ie. Local exhaust ventilation, non-atomising spray etc.).

Wash hands and skin before and after work. Do not apply to surfaces where food is prepared, stored or eaten. Remove or cover all foodstuffs before application. Do not apply to hot surfaces or unprotected electrical equipment or naked flames. Keep unprotected persons and animals away from treated surfaces for 48 hours or until surfaces are dry or covered. Avoid excessive contamination of coveralls and launder regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear/Amber liquid</td>
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<tr>
<td>Odour</td>
<td>Slight</td>
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(Cont'd).
9. PHYSICAL AND CHEMICAL PROPERTIES (Cont'd).

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>pH</td>
<td>8</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>100°C</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Explosives Properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Solubility in solvent</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>N/A</td>
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<tr>
<td>Flash Point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>Not Known</td>
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<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Density</td>
<td>1.08-1.10g/cm³</td>
</tr>
<tr>
<td>Vapour Pressure (Specify Solvent)</td>
<td>n-Octanol/Water</td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

Stable and non-reactive under normal conditions of handling and storage.

INCOMPATIBLE SUBSTANCES

Strong Oxidising Agents

11. TOXICOLOGICAL INFORMATION

LD (50) 15,000 mg/kg (Wistar Rat Scantox)

EFFECTS OF ACUTE (OVER) EXPOSURE

SKIN: Reddening at the site of contact possible accompanied by itching/stinging.

EYES: Watering, soreness and severe irritation

INHALATION: Due to the low volatility of the product there should be no hazard associated with inhalation under normal conditions of use. Excessive inhalation of spray mist may cause irritation of nasal passages and mucous membranes, cough, confusion or dizziness.

INGESTION: *Abdominal pains, nausea, vomiting, possible reddening of the mouth and gastric tract.

NB: This product contains 1,2 Ethandiol which can be dangerous in high doses. To block the Toxic Aldehyde administer Ethanol orally.

Medical Personnel should contact their nearest Poisons Unit for further advice.

12. ECOLOGICAL INFORMATION

Do not allow product, waste or empty container to contaminate ponds, waterways, ditches, drains or water storage tanks.

Toxic to aquatic life. Possible phytotoxic – avoid contact with plant life. All ingredients potentially biodegradable.

Do not use on or near bees or bee keeping equipment including hives.
13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Disposal of Waste in accordance with the Environmental Protection Act 1990. Preferably by high temperature incineration at a site approved and licensed by the Local Authority, operated by a competent approved and licensed Waste Disposal Contractor.

DISPOSAL OF PACKAGING: Cleaned and empty containers may be disposed of as inert waste (remove the label). Duty of Care Waste Transfer Form should specify Pesticide Product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15. REGULATORY INFORMATION

CLASSIFICATION Irritating to eyes and skin

This product is approved under the Control of Pesticides Regulations 1986 for use by Professional Operators as directed. HSE No. 6286

The control of Substances Hazardous to Health Regulations 1988 will relate to this product when used at work.

16. OTHER INFORMATION

Recommended uses and restrictions: Use only as directed

NOTICE TO CUSTOMER:

ENSURE ALL POTENTIAL USERS OF THIS PRODUCT ARE AWARE OF THIS SDS PRIOR TO USING THE PRODUCT.
KEEP SDS IN A SAFE PLACE READILY LOCATABLE IN CASE OF FUTURE REQUIREMENT.
READ THIS SDS IN CONJUNCTION WITH THE LABEL AND DIRECTIONS FOR USE ON THE PRODUCT CONTAINER.
DESTROY ALL OBSOLETE COPIES RELATING TO THIS PRODUCT
THIS SDS RELATES ONLY TO THE PRODUCT SPECIFIED.
COPIES OF THIS DOCUMENT ARE AVAILABLE ON REQUEST.

THIS SAFETY DATA SHEET IS BASED ON THE BEST OF CURRENT INFORMATION AND ADVICE AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE. NO LIABILITY CAN BE ACCEPTED FOR LOSS, DAMAGE OR INJURY AS CONDITIONS OF USE ARE OUTSIDE OUR CONTROL. THIS IS NOT A TECHNICAL SPECIFICATION.

1. PRODUCT NAME: TRIBOR 20
   HSE No. 6242

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octoborate Tetrahydrate</td>
<td>12280-03-04</td>
<td>20</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>28</td>
<td></td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Ethylene Glycol and other inert materials</td>
<td>107-21-1</td>
<td>52</td>
<td>Xn,Harmful</td>
<td>R22</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritating to eyes and skin.
Harmful if swallowed

4. FIRST AID

CONTACT WITH SKIN: Wash with plenty of water or soap and water.

CONTACT WITH EYES: Wash out with water for several minutes. Seek medical advice.

INGESTION: Wash out mouth with water and give water to drink. Do not induce vomiting. If patient feels unwell, seek medical attention.

INHALATION: Remove to fresh air.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT: No particular requirements

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear respiratory protection if large amounts of dust are generated.

ENVIRONMENTAL PRECAUTIONS: No environment hazard.

CLEAN-UP PROCEDURES: Sweep up and place in container for re-use or disposal to landfill.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Observe normal industrial hygiene methods.

STORAGE INFORMATION
Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable gloves, (neoprene/PVC or synthetic rubber). Eye/face protection to BS2092 for chemical resistance and coveralls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with P2 or P3 cartridge.

Engineering controls of operator exposure may replace PPE if it provides equal or a higher degree of protection (ie. Local exhaust ventilation, non-atomising spray etc.).

Wash hands and skin before and after work. Do not apply to surfaces where food is prepared, stored or eaten. Remove or cover all foodstuffs before application. Do not apply to hot surfaces or unprotected electrical equipment or naked flames. Keep unprotected persons and animals away from treated surfaces for 48 hours or until surfaces are dry or covered. Avoid excessive contamination of coveralls and launder regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, pale liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>9 (1% in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;190°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt;370°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>LEL s.6%, UEL 12.5%</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>30Pa (25°C)</td>
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<tr>
<td>Relative density</td>
<td>1.18 – 1.20</td>
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<tr>
<td>Bulk density</td>
<td>Not Relevant</td>
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<tr>
<td>Viscosity</td>
<td>No Data</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
Protect from moisture (product is hygroscopic)

MATERIELS TO AVOID
Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Low acute oral toxicity LD₃₀ (by calculation) >5000mg/kg
12. ECOLOGICAL INFORMATION

MOBILITY Mobile in the soil.

DEGRADABILITY Not biodegradable

ACCUMULATION There is a likelihood of bioaccumulation or biomagnification.

ECTOTOXICITY Boron is an essential micronutrient for plant life, but phytotoxic in large amounts.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Dispose of by landfill in a commercial site, in accordance with local and national regulations.

DISPOSAL OF PACKAGING: As for product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15. REGULATORY INFORMATION

CLASSIFICATION Harmful if swallowed.

This product is approved under the control of pesticides regulations 1986 for use by Professional Operators as directed. HSE No. 6242.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

1. PRODUCT NAME: TRIBOR GEL

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium Octoborate Tetrahydrate</td>
<td>12230-03-04</td>
<td>46</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

May cause eye irritation, and mild skin irritation on prolonged contact.

4. FIRST AID

CONTACT WITH SKIN: Wash with plenty of water or soap and water.

CONTACT WITH EYES: Wash out with water for several minutes. Seek medical advice.

INGESTION: Wash out mouth with water and give water to drink. Do not induce vomiting. If patient feels unwell, seek medical attention.

INHALATION: Remove to fresh air.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT: No particular requirements

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear respiratory protection if large amounts of dust are generated.

ENVIRONMENTAL PRECAUTIONS: No environment hazard.

CLEAN-UP PROCEDURES: Sweep up and place in container for re-use or disposal to landfill.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS

Observe normal industrial hygiene methods.

STORAGE INFORMATION

Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use PVC or synthetic/rubber gloves and eye/face protection when applying the product.

EXPOSURE LIMITS

None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colourless gel</td>
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<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>9 (1% in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;190°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>&gt;370°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>LEL 6%, UEL 12.5%</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>30Pa (25°C)</td>
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<tr>
<td>Relative density</td>
<td>1200kg/m³</td>
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<td>Bulk density</td>
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<tr>
<td>Viscosity</td>
<td>No Data</td>
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<tr>
<td>Solubility</td>
<td>Soluble in water</td>
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<tr>
<td>Partition coefficient</td>
<td>No data</td>
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<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY

Stable

CONDITIONS TO AVOID

Protect from moisture (product is hygroscopic)

MATERIALS TO AVOID

Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Low acute oral toxicity LD₅₀ (by calculation) >5000mg/kg

12. ECOLOGICAL INFORMATION

MOBILITY

Mobile in the soil.

DEGRADABILITY

Not biodegradable

ACCUMULATION

There is a likelihood of bioaccumulation or biomagnification.

ECTOTOXICITY

Boron is an essential micronutrient for plant life, but phytotoxic in large amounts.
13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Dispose of by landfill in a commercial site, in accordance with local and national regulations.

DISPOSAL OF PACKAGING: As for product.

14. TRANSPORT INFORMATION

Not regulated for transport by road, rail, sea or air.

15. REGULATORY INFORMATION

CLASSIFICATION Not classified as hazardous.

This product is approved under the control of pesticides regulations 1986 for use by Professional Operators as directed. HSE No. 6099

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

1. PRODUCT NAME: TRITEC 120

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258—067-9</td>
<td>4.6</td>
<td>Xn</td>
<td>Harmful</td>
</tr>
<tr>
<td>Fatty alcohol ethoxylate</td>
<td>68439-46-3</td>
<td></td>
<td>28-32</td>
<td>Xi</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritating to eyes and skin
Risk of serious damage to eyes

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water for at least 5 minutes.

CONTACT WITH EYES
Wash out with water for several minutes. Seek medical advice.

INGESTION
Rinse the mouth (do not swallow), and give copious fluids to drink. DO NOT INDUCE VOMITING. Obtain medical attention.

INHALATION
Remove to fresh air. Keep warm and at rest.

OTHER INFORMATION
Treat symptomatically

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT
Wear breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear, overalls. (Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Material should only be handled by trained personnel. Wear suitable protective clothing according to item 8.

STORAGE INFORMATION
Protect from frost. Keep containers tightly closed in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear and overalls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a P2 or P3 cartridge. Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke whilst handling the product. Do not wear contaminated clothing.

EXPOSURE LIMITS
None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Very slight odour</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;100°C</td>
</tr>
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<td>Melting point</td>
<td>Below 0°C</td>
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<tr>
<td>Flash point</td>
<td>Above 93°C</td>
</tr>
<tr>
<td>Flammability/autoflammability</td>
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<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.01 – 1.03 (15°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
No special requirements

MATERIALS TO AVOID
### 11. Toxicological Information

Acute Toxicity: LD₉₀ > 10,000mg/Kg, by calculation. May produce a transient burning or stinging sensation (without lesions) on exposed skin.

### 12. Ecological Information

**Mobility**
The water-miscibility of the product suggests that it is likely to leach from soil into groundwater. There is no available data on sorption/desorption.

**Degradability**
Biodegradable in natural media. No data on persistence.

**Accumulation**
There is no evidence for bioaccumulation or biomagnification.

**Ecotoxicity**
Extremely toxic to fish (Permethrin LC₅₀ 96h (trout) 0.009mg/l)

### 13. Disposal Considerations

**Disposal of Product**
Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (most likely to be incineration).

**Disposal of Packaging**
Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

### 14. Transport Information

- **UN No.** None assigned
- **Proper Shipping Name**
- **Emergency Action Code**
  - Not regulated
- **ADR/RID**
- **IMCO**
  - Not classified as hazardous for carriage by sea
  - MFAG Table No.
  - EmS No.
- **ICAO/IATA** --
- **Packing Group** None assigned
- **Label** Marine pollutant

### 15. Regulation Information

**Classification**
- Irritating to eyes and skin.
- Risk of serious damage to eyes

**Safety Phrases**
- Keep away from food, drink and animal feeding stuffs.
- Keep out of reach of children.
- Keep only in the original container.
- Keep container tightly closed.
- KEEP IN A SAFE PLACE.
- ENSURE ADEQUATE VENTILATION before reoccupation.
- WASH ANY CONTAMINATION from exposed skin and eyes immediately.
- WASH HANDS AND EXPOSED SKIN before meals and after use.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

(CONT'D)
15. REGULATORY INFORMATION (CONT’D)

THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986 FOR USE AS DIRECTED, HSE No. 6539.

To avoid risks to man and the environment, comply with the instructions for use.

LABEL INFORMATION
FOR USE ONLY AS A WOOD PRESERVATIVE
FOR USE ONLY BY PROFESSIONAL OPERATORS

READ ALL PRECAUTIONS BEFORE USE
The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.
FOR USE ONLY BY PROFESSIONAL OPERATORS.
Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.
Wear suitable protective clothing, gloves and eye/face protection.
AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.
Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G)53, “The Selection, Use and Maintenance of Respiratory Protective Equipment – A Practical Guide”). However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.
WHEN USING DO NOT EAT, DRINK OR SMOKE
THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.
EXCLUDE ALL UNPROTECTED PERSONS AND ANIMALS DURING TREATMENT AND FOR AT LEAST 1 HOUR AFTER TREATMENT IS COMPLETED.
ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS AND ANIMALS UNTIL TREATED SURFACES ARE VISIBLY DRY.
EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.
REMOVE OR COVER FISH TANKS AND BOWLS before application.
Do not contaminate ground, waterbodies or watercourses with chemicals or used container.
COVER WATER STORAGE TANKS before application.
ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES. READ ALL PRECAUTIONS BEFORE USE
HSE No. 6539

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

TRITEC 120 Plus

TRITEC 120 Plus

Material Safety Data Sheet

According to 93/112EC

TRITON Chemical Manufacturing Co. Ltd
129 Felixstowe Road, Abbeywood, London SE2 9SG

Telephone: 020 8310 3929
Fax: 020 8312 0349

MSDS Ref. TR
215
Publication date
13/07/98
Revision date
03/03/04

1. PRODUCT NAME: TRITEC 120 PLUS HSE NO. 6537

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258—067-9</td>
<td>2.3</td>
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<td>-propiconazole</td>
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<tr>
<td>Fatty alcohol ethoxylate</td>
<td>68439-46-3</td>
<td>28-32</td>
<td>28-32</td>
<td>Xi</td>
<td>R41</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritating to eyes and skin
Risk of serious damage to eyes.
May cause sensitisation by skin contact.
Dangerous for the environment

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water for at least 5 minutes.

CONTACT WITH EYES
Wash out with water for several minutes. Seek medical advice.

INGESTION
Rinse the mouth (do not swallow), and give copious fluids to drink.
DO NOT INDUCE VOMITING. Obtain medical attention.

INHALATION
Remove to fresh air. Keep warm and at rest.

OTHER INFORMATION
Treat symptomatically

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT
Wear breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear, overalls.

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses.
If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Material should only be handled by trained personnel. Wear suitable protective clothing according to item 8.

STORAGE INFORMATION
Protect from frost. Keep containers tightly closed in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear and overalls.
If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a P2 or P3 cartridge.
Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke whilst handling the product.
Do not wear contaminated clothing.

EXPOSURE LIMITS
None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
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<tbody>
<tr>
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<td>Oxidising properties</td>
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<td>Vapour pressure</td>
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<tr>
<td>Solubility</td>
<td>Miscible with water</td>
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<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
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</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
No special requirements

MATERIALS TO AVOID

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD₅₀ > 10,000mg/Kg, by calculation. May produce a transient burning or stinging sensation (without lesions) on exposed skin.
12. ECOLOGICAL INFORMATION

MOBILITY The water-miscibility of the product suggests that it is likely to leach from soil into groundwater. There is no available data on sorption/desorption.

DEGRADABILITY Biodegradable in natural media. No data on persistence

ACCUMULATION There is no evidence for bioaccumulation or biomagnification.

ECOTOXICITY Extremely toxic to fish (Permethrin LC₅₀ 96h (trout) 0.009mg/l)

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (most likely to be incineration).

DISPOSAL OF PACKAGING Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

14. TRANSPORT INFORMATION

UN NO. None assigned

PROPER SHIPPING NAME

EMERGENCY ACTION CODE

ADR/RID Not regulated

IMCO Not classified as hazardous for carriage by sea

MFAG Table No.

EmS No.

ICAO/IATA --

PACKING GROUP None assigned

LABEL Marine pollutant

15. REGULATION INFORMATION

CLASSIFICATION Irritating to eyes and skin
Risk of serious damage to eyes
May cause sensitisation by skin contact
Dangerous for the environment.

SAFETY PHRASES Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.
Keep only in original container.
Keep container tightly closed.
KEEP IN A SAFE PLACE.
ENSURE ADEQUATE VENTILATION before re-occupation.
WASH ANY CONTAMINATION from skin or eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after use.
IRRITATING TO EYES AND SKIN.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
MAY CAUSE SENSITISATION BY SKIN CONTACT.
DANGEROUS FOR THE ENVIRONMENT.
TOXIC TO AQUATIC ORGANISMS. (CONTD.)
15. REGULATORY INFORMATION (CONT’D)

MAY CAUSE LONGTERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986 FOR USE AS DIRECTED. HSE No. 6537.

To avoid risks to man and the environment, comply with the instructions for use.

LABEL INFORMATION:
WOOD PRESERVATIVE FOR PROFESSIONAL USE AGAINST WOOD ROTTING FUNGI AND WOOD DESTROYING INSECTS.
FOR USE ON WOOD OUT OF GROUND CONTACT OR SURFACE WATER CONTACT.

READ ALL PRECAUTIONS BEFORE USE
The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.
FOR USE ONLY BY PROFESSIONAL OPERATORS.
Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.
Wear suitable protective clothing, gloves and eye/face protection.
AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.
Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G)53: “The Selection, Use and Maintenance of Respiratory Equipment – A Practical Guide”).
However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.
WHEN USING, DO NOT EAT, DRINK OR SMOKE.
THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
EXCLUDE ALL UNPROTECTED PERSONS AND ANIMALS DURING TREATMENT AND FOR AT LEAST 1 HOUR AFTER TREATMENT IS COMPLETED.
ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS AND ANIMALS UNTIL TREATED SURFACES ARE VISIBLY DRY.
EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.
REMOVE OR COVER ALL FISH TANKS AND BOWLS before application.
Do not contaminate ground, waterbodies or watercourses with chemicals or used container.
COVER WATER STORAGE TANKS before application.
ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.
READ ALL PRECAUTIONS BEFORE USE., HSE No. 6537.

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION
The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

TRITEC 121

Material Safety Data Sheet

According to 93/112EC

Triton Chemical Manufacturing Co. Ltd
129 Felixstowe Road, Abbeywood, London SE2 9SG
Telephone: 020 8310 3929
Fax: 020 8312 0349

MSDS Ref: TR 217
Publication date 13/07/98
Revision date 03/03/04

1. PRODUCT NAME: TRITEC 121 HSE NO. 6541

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258—067-9</td>
<td>4.6</td>
<td>Xn</td>
<td>R22</td>
</tr>
<tr>
<td>Fatty alcohol ethoxylate</td>
<td>68439-46-3</td>
<td>28-32</td>
<td>28-32</td>
<td>Xi</td>
<td>R41</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritating to eyes and skin
Risk of serious damage to eyes

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water for at least 5 minutes

CONTACT WITH EYES
Wash out with water for several minutes. Seek medical advice

INGESTION
Rinse the mouth (do not swallow), and give copious fluids to drink.
DO NOT INDUCE VOMITING. Obtain medical attention.

INHALATION
Remove to fresh air. Keep warm and at rest.

OTHER INFORMATION
Treat symptomatically

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT
Wear breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear, overalls. (Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses.
If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Material should only be handled by trained personnel.
Wear suitable protective clothing according to item 8.

STORAGE INFORMATION
Protect from frost. Keep containers tightly closed in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear, and overalls.
If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a P2 or P3 cartridge.
Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke whilst handling the product.
Do not wear contaminated clothing.

EXPOSURE LIMITS
None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
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<tbody>
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<td>Oxidising properties</td>
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<td>Vapour pressure</td>
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<tr>
<td>Relative density</td>
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<td>Bulk density</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
No special requirements

MATERIALS TO AVOID

---
11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD > 10,000mg/Kg, by calculation. May produce a transient burning or stinging sensation (without lesions) on exposed skin.

12. ECOLOGICAL INFORMATION

MOBILITY The water-miscibility of the product suggests that it is likely to leach from soil into groundwater. There is no available data on sorption/desorption.

DEGRADABILITY Biodegradable in natural media. No data on persistence

ACCUMULATION There is no evidence for bioaccumulation or biomagnification.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (most likely to be incineration).

DISPOSAL OF PACKAGING Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

14. TRANSPORT INFORMATION

UN NO. None assigned

PROPER SHIPPING NAME

EMERGENCY ACTION CODE

ADR/RID Not regulated

IMCO Not classified as hazardous for carriage by sea

MFAG Table No.

EmS No.

ICAO/IATA --

PACKING GROUP None assigned

LABEL Marine pollutant

15. REGULATORY INFORMATION

CLASSIFICATION Irritating to eyes and skin
Risk of serious damage to eyes

SAFETY PHRASES Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.
Keep only in the original container.
Keep container tightly closed.
KEEP IN A SAFE PLACE.
ENSURE ADEQUATE VENTILATION before reoccupation.
WASH ANY CONTAMINATION from exposed skin and eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after use
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. (CONT’D)
15. REGULATORY INFORMATION (CONT’D)

THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986 FOR USE AS DIRECTED, HSE No. 6539.

To avoid risks to man and the environment, comply with the instructions for use.

LABEL INFORMATION
FOR USE ONLY AS A WOOD PRESERVATIVE
FOR USE ONLY BY PROFESSIONAL OPERATORS

READ ALL PRECAUTIONS BEFORE USE

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.

FOR USE ONLY BY PROFESSIONAL OPERATORS.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.

Wear suitable protective clothing, gloves and eye/face protection.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.

Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G)53, “The Selection, Use and Maintenance of Respiratory Protective Equipment – A Practical Guide”). However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.

WHEN USING DO NOT EAT, DRINK OR SMOKE

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

EXCLUDE ALL UNPROTECTED PERSONS AND ANIMALS DURING TREATMENT AND FOR AT LEAST 1 HOUR AFTER TREATMENT IS COMPLETED.

ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS AND ANIMALS UNTIL TREATED SURFACES ARE VISIBLY DRY.

EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.

REMOVE OR COVER FISH TANKS AND BOWLS before application.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

COVER WATER STORAGE TANKS before application.

ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES. READ ALL PRECAUTIONS BEFORE USE

HSE No. 6539

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

1. PRODUCT NAME: **TRITEC 121 PLUS**

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258—067-9</td>
<td>4.6</td>
<td>Xn, Harmful</td>
<td>R22</td>
</tr>
<tr>
<td>Propiconazole</td>
<td>60207-90-1</td>
<td></td>
<td>9.8</td>
<td>Xn, Harmful R22, R50/53</td>
<td></td>
</tr>
<tr>
<td>Fatty alcohol ethoxylate</td>
<td>68439-46-3</td>
<td></td>
<td>28-32</td>
<td>Xi</td>
<td>R41</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritating to eyes and skin
May cause sensitisation by skin contact.
Dangerous for the environment.
Risk of serious damage to eyes

4. FIRST AID

CONTACT WITH SKIN: Wash with plenty of soap and water for at least 5 minutes
CONTACT WITH EYES: Rinse out with water for several minutes. Seek medical advice
INGESTION: Rinse the mouth (do not swallow), and give copious fluids to drink. DO NOT INDUCE VOMITING. Obtain medical attention.
INHALATION: Remove to fresh air. Keep warm and at rest.
OTHER INFORMATION: Treat symptomatically

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: As appropriate to surrounding fire
SPECIAL PROTECTIVE EQUIPMENT: Wear breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear, overalls.
ENVIRONMENTAL PRECAUTIONS: Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.
CLEAN-UP PROCEDURES: Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS  Material should only be handled by trained personnel.
Wear suitable protective clothing according to item 8.

STORAGE INFORMATION  Protect from frost. Keep containers tightly closed in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear, and overalls. If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a P2 or P3 cartridge.
Wash hands and exposed skin before meals and after use. Do not eat, drink or smoke whilst handling the product.
Do not wear contaminated clothing.

EXPOSURE LIMITS  None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Very slight odour</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;100°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Below 0°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Above 93°C</td>
</tr>
<tr>
<td>Flammability/autoflammability</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.02 – 1.04 (15°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY  Stable

CONDITIONS TO AVOID  No special requirements

MATERIALS TO AVOID

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD > 10,000mg/Kg, by calculation. May produce a transient burning or stinging sensation (without lesions) on exposed skin.
12. ECOLOGICAL INFORMATION

MOBILITY: The water-miscibility of the product suggests that it is likely to leach from soil into groundwater. There is no available data on sorption/desorption.

DEGRADABILITY: Biodegradable in natural media. No data on persistence.

ACCUMULATION: There is no evidence for bioaccumulation or biomagnification.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (most likely to be incineration).

DISPOSAL OF PACKAGING: Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.

14. TRANSPORT INFORMATION

UN NO.: None assigned

PROPER SHIPPING NAME:

EMERGENCY ACTION CODE:

ADR/RID: Not regulated

IMCO: Not classified as hazardous for carriage by sea

MFAG Table No.

EmS No.

ICAO/IATA:

PACKING GROUP: None assigned

LABEL: Marine pollutant

15. REGULATION INFORMATION

CLASSIFICATION:

Irritating to eyes and skin
Risk of serious damage to eyes
May cause sensitisation by skin contact
Dangerous for the environment.

SAFETY PHRASES:

Keep away from food, drink and animal feeding stuffs.
Keep out of reach of children.
Keep only in original container.
Keep container tightly closed.
KEEP IN A SAFE PLACE.
ENSURE ADEQUATE VENTILATION before re-occupation.
WASH ANY CONTAMINATION from skin or eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after use.
IRRITATING TO EYES AND SKIN.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
MAY CAUSE SENSITISATION BY SKIN CONTACT.
DANGEROUS FOR THE ENVIRONMENT.
TOXIC TO AQUATIC ORGANISMS
MAY CAUSE LONGTERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. (CONTD.)
15. REGULATORY INFORMATION (CONT’D)

THIS PRODUCT IS APPROVED UNDER THE CONTROL OF PESTICIDES REGULATIONS 1986
FOR USE AS DIRECTED. HSE No. 6538.

To avoid risks to man and the environment, comply with the instructions for use.

LABEL INFORMATION:
WOOD PRESERVATIVE FOR PROFESSIONAL USE AGAINST WOOD ROTTING FUNGI AND WOOD
DESTROYING INSECTS.
FOR USE ON WOOD OUT OF GROUND CONTACT OR SURFACE WATER CONTACT.

READ ALL PRECAUTIONS BEFORE USE

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at
work.

FOR USE ONLY BY PROFESSIONAL OPERATORS.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following items
of personal protective equipment.

Wear suitable protective clothing, gloves and eye/face protection.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.

Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide
an equal or higher standard of protection.

DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES.
WHEN USING, DO NO EAT, DRINK OR SMOKE.

THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
EXCLUDE ALL UNPROTECTED PERSONS AND ANIMALS DURING TREATMENT AND FOR AT LEAST 1
HOUR AFTER TREATMENT IS COMPLETED.
ENSURE THERE IS A PHYSICAL BARRIER TO PREVENT CONTACT BY UNPROTECTED PERSONS AND
ANIMALS UNTIL TREATED SURFACES ARE VISIBLY DRY.
EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.
REMOVE OR COVER ALL FISH TANKS AND BOWLS before application.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

COVER WATER STORAGE TANKS before application.

ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE
TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURL
HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.

READ ALL PRECAUTIONS BEFORE USE., HSE No. 6538.

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances
Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as
required by health and safety legislation.

16. OTHER INFORMATION

The information contained in this data sheet is to the best of our knowledge accurate at the date of
publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

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technical data sheet for the product.

Abbreviations:  OES – occupational exposure standard. STEL – short-term exposure limit. LTEL – long
term exposure limit. TWA – time weighted (8 hour) average. LEL – lower explosive limit. UEL – upper
explosive limit.
1. PRODUCT NAME: TRIMETHRIN 2 OS HSE NO. 4621

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258-067-9</td>
<td>0.2</td>
<td>Irritant</td>
<td>R22</td>
</tr>
<tr>
<td>Odourless Kerosene</td>
<td>64742-47-8</td>
<td>265-149-8</td>
<td>99.8</td>
<td>Harmful</td>
<td>R22</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant – irritant to eyes and skin
Flammable (flash point 77°C)
Harmful if swallowed

4. FIRST AID

CONTACT WITH SKIN Wash with plenty of soap and water for at least 5 minutes.

CONTACT WITH EYES Wash out with water for several minutes. If redness and/or irritation persists, seek medical advice.

INGESTION Rinse the mouth (do not swallow), and give water or milk to drink. Seek medical advice. DO NOT INDUCE VOMITING.

INHALATION Remove to fresh air if fumes cause irritation of nose or throat.

OTHER INFORMATION Treat symptomatically

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Dry powder or foam. For small fires use CO₂. Never use water jet.

Flash point 77°C.

SPECIAL PROTECTIVE EQUIPMENT For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear, overalls.

(Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses.
If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbent and shovel into
a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Observe good hygiene standards and minimise skin contact.
Wear suitable protective clothing according to item 8.

STORAGE INFORMATION
Keep containers tightly closed in a cool place, out of direct
sunlight. Keep stored well ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where prolonged or repeated exposure is likely, protective clothing should be worn,
including eye protection and PVC or synthetic rubber gloves.
If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type
respirator fitted with a suitable cartridge.
Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke
whilst handling the product.
Do not wear contaminated clothing. Ventilate confined spaces thoroughly.

EXPOSURE LIMITS
LTEL for solvent: 1000mg/m³
(8 hr. TWA)
OES 5mg/m³ oil mist

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colourless liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Paraffinic</td>
</tr>
<tr>
<td>PH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Boiling point</td>
<td>200° to 260°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>77°C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>230°C</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>LEL 0.6%, UEL 7.0%</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.81 (15°C)</td>
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<tr>
<td>Bulk density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2.25cS @ 20°C</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable under normal conditions of use.

CONDITIONS TO AVOID
High temperatures (flash point 77°C)

MATERIALS TO AVOID
Strong oxidising agents.
11. TOXICOLOGICAL INFORMATION

Toxicity following a single exposure to high levels of the solvent component is of a low order. Prolonged and repeated contact may cause drying of the skin and possibly dermatitis. Prolonged inhalation of spray mist may cause inflammation of the lungs. The major hazard is lung damage from aspiration – medical supervision for 24-48 hours is recommended if aspiration could have occurred. The Permethrin may cause a stinging or burning sensation on the skin (without lesions).

LD50 oral (rat) > 10,000mg/kg (by calculation)

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>MOBILITY</th>
<th>Likely to be mobile in the soil. Take care to avoid contamination of groundwater.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEGRADABILITY</td>
<td>Biodegrades slowly.</td>
</tr>
<tr>
<td>ACCUMULATION</td>
<td>There is no evidence for bioaccumulation or biomagnification.</td>
</tr>
<tr>
<td>ECOTOXICITY</td>
<td>Highly toxic to fish. Marine pollutant (IMDG code)</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>DISPOSAL OF PRODUCT</th>
<th>Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations. Can be burned in domestic refuse incinerators in accordance with local regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPOSAL OF PACKAGING</td>
<td>Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN NO.</th>
<th>None assigned</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPER SHIPPING NAME</td>
<td></td>
</tr>
<tr>
<td>EMERGENCY ACTION CODE</td>
<td>3[Z] (suggested)</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>Not classified as hazardous</td>
</tr>
<tr>
<td>IMCO</td>
<td>Not classified as hazardous</td>
</tr>
<tr>
<td>MFAG Table No.</td>
<td></td>
</tr>
<tr>
<td>EmS No.</td>
<td></td>
</tr>
<tr>
<td>ICAO/IATO</td>
<td>Not classified as hazardous</td>
</tr>
<tr>
<td>PACKING GROUP</td>
<td></td>
</tr>
<tr>
<td>LABEL</td>
<td>Marine pollutant</td>
</tr>
</tbody>
</table>
15. REGULATORY INFORMATION

CLASSIFICATION

Irritant

LABEL INFORMATION

**PRECAUTIONS**

FLAMMABLE. DO NOT APPLY in the presence of naked flames, hot surfaces or unprotected electrical equipment.

ENSURE ADEQUATE VENTILATION when applying.

WEAR SUITABLE PROTECTIVE CLOTHING, NAMELY OVERALLS AND SYNTHETIC/PVC GLOVES when handling.

AVOID WORKING IN SPRAY MIST or wear suitable respiratory equipment and eye protection.

WHEN USING, DO NOT EAT, DRINK OR SMOKE.

WASH HANDS AND EXPOSED SKIN before meals and after work.

COVER ALL FOODSTUFFS BEFORE APPLICATION.

DO NOT APPLY TO SURFACES on which food is prepared.

CHILDREN AND PETS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL DRY.

VENTILATE CONFINED SPACES THOROUGHLY.

EXTREMELY DANGEROUS TO FISH. Do not contaminate ponds, waterways or ditches with chemical or used container.

REMOVE FISH TANKS before applying.

DO NOT USE ON BEEHIVES OR BEEKEEPING EQUIPMENT.

KEEP OUT OF THE REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed and in a safe place.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

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16. OTHER INFORMATION

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1. PRODUCT NAME: TRISOL 23

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-lodo-2-propynyl-butyl carbamate</td>
<td>55406-53-6</td>
<td>259-627-5</td>
<td>5</td>
<td>Xn, N</td>
<td>R20/22, 41,50</td>
</tr>
<tr>
<td>Fatty Alcohol ethoxylate</td>
<td></td>
<td></td>
<td>22</td>
<td>Xn</td>
<td>R22, 41</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Harmful if swallowed
Risk of serious damage to eyes

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water for at least 5 minutes. If irritation or redness develop, seek medical attention.

CONTACT WITH EYES
Wash out with water for several minutes. Seek medical advice.

INGESTION
Rinse the mouth (do not swallow), and give copious fluids to drink, preferably milk. DO NOT INDUCE VOMITING.

INHALATION
May cause respiratory irritation. Remove to fresh air, keep warm and at rest.

OTHER INFORMATION
Information for doctor: May cause severe eye irritation and possible corneal injury unless washed from eyes promptly.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
As appropriate to surrounding fire

SPECIAL PROTECTIVE EQUIPMENT
Full protective clothing. May produce toxic and irritant iodine vapour

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing including eye/face protection and PVC or synthetic rubber gloves, protective footwear, and overalls.

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

(Cont’d)
6. ACCIDENTAL RELEASE MEASURES (Cont’d)

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Avoid contact with eyes or skin. Do not breathe spray. Wear suitable protective clothing according to item 8.

STORAGE INFORMATION
Protect from frost. Keep containers tightly closed in a cool place. Do not mix or store in galvanised or light metal containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear goggles or face shield, PVC or synthetic rubber gloves, protective footwear, and overalls.
If spraying wear suitable respiratory protection, either an air-fed mask or cartridge type respirator fitted with a suitable cartridge. 
It is advisable to wear a suitable head covering and to apply a barrier cream (water-resistant type).
Wash before meals; shower or bathe after work. Do not smoke whilst handling the product.
Do not wear contaminated clothing.

EXPOSURE LIMITS
None assigned in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Very slight odour</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 100° C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Below 0° C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93° C</td>
</tr>
<tr>
<td>Flammability/autoflammability</td>
<td>Not combustible</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.02 – 1.04 (15°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Similar to water</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
No special requirements

MATERIALS TO AVOID
Strong acids and bases
11. TOXICOLOGICAL INFORMATION

3-iodo-2-propynyl-butyryl carbamate (I.P.B.C.) is moderately toxic: LD₅₀ 1470mg/kg (rat, acute, oral). The calculated toxicity of TRISOL 23 is LD₅₀ > 10,000mg/kg, based on dilution factors.

It causes severe eye irritation and is a skin irritant.

Ingestion may cause nausea, gastrointestinal irritation and vomiting. Long-term exposure effects are unknown.

12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>MOBILITY</th>
<th>No specific information.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEGRADABILITY</td>
<td>COD = 1.148e mg/kg (day(s)) for I.P.B.C.</td>
</tr>
<tr>
<td></td>
<td>I.P.B.C. is not biodegradable</td>
</tr>
<tr>
<td>ACCUMULATION</td>
<td>Bioconcentration factor for Carp: 3.3-4.5</td>
</tr>
<tr>
<td>ECOTOXICITY</td>
<td>Acutely toxic to aquatic organisms.</td>
</tr>
<tr>
<td></td>
<td>LC₅₀ (96hr) Blue gill 0.23mg a.i./L. LC₂₀ (48hr) Daphnia magna 0.696mg/L</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>DISPOSAL OF PRODUCT</th>
<th>Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISPOSAL OF PACKAGING</td>
<td>Uncleaned packaging should be treated as for the product. If thoroughly rinsed, it may be treated as general waste for incineration or landfill, according to regulations.</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN NO.</th>
<th>3077</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPER SHIPPING NAME</td>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCES, NOS.</td>
</tr>
<tr>
<td>Contains Iodocarb (5%)</td>
<td></td>
</tr>
<tr>
<td>ADR/RID</td>
<td>Class 9. Item 12(c)</td>
</tr>
<tr>
<td>IMCO</td>
<td>Class 9. IMDG Code page 9029</td>
</tr>
<tr>
<td>ICAO/IATO</td>
<td>Class 9.</td>
</tr>
<tr>
<td>PACKING GROUP</td>
<td>III</td>
</tr>
<tr>
<td>LABEL</td>
<td>Harmful, Dangerous to the environment (as 100% I.P.B.C)</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk of serious damage to eyes</td>
<td></td>
</tr>
</tbody>
</table>

LABEL INFORMATION:

FOR USE ONLY AS A SURFACE BIOCIDES
FOR USE ONLY BY PROFESSIONAL OPERATORS

SAFETY PHRASES
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL seek medical advice immediately. (Show the label where possible).
To avoid risks to man and the environment, comply with the instructions for use. (Cont’d)

(Cont’d)
15. REGULATORY INFORMATION (Cont’d)

SAFETY PHRASES (Cont’d)
WASH HANDS AND EXPOSED SKIN before meals and after use.
WASH ANY CONTAMINATION from skin or eyes immediately.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Keep only in the original container.
Keep container tightly closed.
KEEP IN A SAFE PLACE.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
Keep out of the reach of children.

PRECAUTIONS
The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work.
FOR USE ONLY BY PROFESSIONAL OPERATORS.
Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.
Wear suitable protective clothing, gloves and eye/face protection.
AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDER REGULARLY.
Do not breathe spray. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS(G) 53: “The Selection – A Practical Guide”.
However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.
THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.
DO NOT APPLY TO SURFACES on which food or feed is stored, prepared or eaten.
UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY.
COVER WATER STORAGE TANKS before application.
Do not empty into drains.
DO NOT APPLY NEAR DRAINS, PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS.
DANGEROUS TO FISH AND OTHER AQUATIC LIFE.
This product contains substances which are known to be hazardous to the environment.
Do not contaminate ground, waterbodies or watercourses with chemical or used container.
REMOVE OR COVER ALL FISH TANKS AND BOWLS before application.
AVOID ALL CONTACT WITH PLANT LIFE.
WHEN USING DO NOT EAT, DRINK OR SMOKE.
READ ALL PRECAUTIONS BEFORE USE.  HSE No. 6274

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

This product is for use only by professional operators as a masonry fungicide.
This product is approved under the control of pesticides regulations 1986 (as amended) for use as directed. HS No. 6274

The information contained in this data sheet is to the best of our knowledge accurate at the date of publication, but we cannot accept responsibility that it is sufficient or correct in all cases.

The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

1. PRODUCT NAME:  TRIPASTE PB  HSE NO. 6080

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Weight %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>258-067-9</td>
<td>0.2</td>
<td>Xn (Harmful)</td>
<td>R22</td>
</tr>
<tr>
<td>Trihexyleneglycol biborate blend with hydrocarbon solvent</td>
<td></td>
<td></td>
<td>3.3</td>
<td>Xn (Harmful)</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant
Irritating to eyes and skin
Mist/fume may irritate nose or throat on prolonged exposure.

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water. If irritation persists, seek medical advice.

CONTACT WITH EYES
Wash out with water for several minutes and seek medical advice.

INGESTION
Do not induce vomiting. Keep at rest and seek medical attention.

INHALATION
Remove to fresh air. Keep warm and at rest. Seek medical advice if necessary.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
Water spray, dry powder, CO₂ or foam. Never use water jet.

SPECIAL PROTECTIVE EQUIPMENT
For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear, overalls.

(Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS  Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES  Absorb in dry sand or earth or similar absorbent and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS  Observe good hygiene standards and minimise skin contact. Provide adequate ventilation in work spaces.

STORAGE INFORMATION  Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where prolonged or repeated exposure is likely, protective clothing should be worn, including eye protection and PVC or synthetic rubber gloves. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product. Do not wear contaminated clothing. Ventilate confined spaces thoroughly.

EXPOSURE LIMITS  None prescribed in EH40

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White or green paste</td>
</tr>
<tr>
<td>Odour</td>
<td>Mild solvent odour</td>
</tr>
<tr>
<td>pH</td>
<td>5.0 – 6.5</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100º to 220ºC</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;60ºC</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt;0.1Pa (20ºC)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.98 (20ºC)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
</tr>
<tr>
<td>Solubility</td>
<td>Partially soluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY  Stable under normal conditions of use.

CONDITIONS TO AVOID  High temperatures

MATERIALS TO AVOID  Strong oxidising agents.
11. TOXICOLOGICAL INFORMATION

Acute toxicity LD₅₀ (rat, oral) > 4000mg/kg. May cause irritation or burning sensation (without lesions).

12. ECOLOGICAL INFORMATION

MOBILITY
Avoid subsoil penetration.

DEGRADABILITY
Biodegradable.

ACCUMULATION
There is potential for bioaccumulation. Biomagnification is unlikely.

ECOTOXICITY
Toxic to aquatic organisms. Permethrin LC₅₀ (trout): 0.009mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT
Chemical residues are normally regarded as Special Waste. Incinerate in compliance with Environment Protection Act 1990 (Process Guidance Note IPR5/1).

DISPOSAL OF PACKAGING
Uncleaned packaging should be treated as for the product. Cleaned packaging may be land-filled.

14. TRANSPORT INFORMATION

UN NO.
None assigned

ADR/RID
Not classified as hazardous

PROPER SHIPPING NAME
Not classified as hazardous

IMCO
Not classified as hazardous

IATA/IACO
Not classified as hazardous

PACKING GROUP
No hazard label

15. REGULATORY INFORMATION

CLASSIFICATION
Irritant

LABEL INFORMATION
R36/38: Irritating to eyes and skin.
S51: Use only in well ventilated areas.

Refer to other relevant legislation such as the Health and Safety at Work etc Act (HSWA), THE Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

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16. OTHER INFORMATION

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The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

TRIMOL RESINS (15, 34, 35, 36, 40, 41)  
Material Safety Data Sheet  
According to 93/112EC

Triton Chemical Manufacturing Co. Ltd.  
129 Felixstowe Road, Abbeywood, London SE2 9SG  
Telephone: 020 8310 3929  
Fax: 020 8312 0349  

MSDS Ref: TR 300  
Publication date 4/4/97  
Revision date

1. PRODUCT NAME:  
TRIMOL RESINS 15, 34, 35, 36, 40, 41

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS Nos.</th>
<th>Weight, %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A and F epoxy Resins, diglycidyl ethers</td>
<td>25068-38-6, 68609-97-2, 28064-14-4</td>
<td>100</td>
<td>Xi (Irritant)</td>
<td>R36/38,43,51/53</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant  
Irritating to skin and eyes

4. FIRST AID

CONTACT WITH SKIN  
Wash with plenty of soap and water.

CONTACT WITH EYES  
Wash out with water for several minutes and seek medical advice.

INGESTION  
Seek medical advice in the event of discomfort.

INHALATION  
Remove to fresh air if fumes cause irritation of nose or throat.

OTHER INFORMATION  
May aggravate existing respiratory problems.

5. FIRE-FIGHTING MEASURES

SUITEABLE EXTINGUISHING MEDIA  
Dry powder or foam. For small fires use CO2. Never use water jet.

SPECIAL PROTECTIVE EQUIPMENT  
For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS  
Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear and overalls.

(Contd.)
## 6. ACCIDENTAL RELEASE MEASURES (contd.)

**ENVIRONMENTAL PRECAUTIONS**
- Do not allow to enter public sewers and watercourses.
- If this cannot be avoided, inform the appropriate authority.

**CLEAN-UP PROCEDURES**
- Absorb in dry sand or earth or similar absorbents and shovel into a suitable closed container for disposal according to item 13.

## 7. HANDLING AND STORAGE

**HANDLING PRECAUTIONS**
- Observe good hygiene standards and minimise skin contact.
- Wear suitable protective clothing according to item 8.

**STORAGE INFORMATION**
- Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Where prolonged or repeated exposure is likely, protective clothing should be worn, including eye protection, boots and PVC or synthetic rubber gloves. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product. Do not wear contaminated clothing. Ventilate confined spaces thoroughly.

**EXPOSURE LIMITS**
- None prescribed in EH40.
- Slight irritant, not considered hazardous.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, golden liquid</td>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Odour</td>
<td>Faint</td>
<td>Vapour pressure</td>
<td>1Pa (20°C)</td>
</tr>
<tr>
<td>pH</td>
<td>7 (50% suspension in water)</td>
<td>Relative density</td>
<td>1.2-1.13 (15°C)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Decomposes</td>
<td>Bulk density</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
<td>Viscosity</td>
<td>No data</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;150°C</td>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data</td>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY/REACTIVITY

STABILITY
Stable under normal conditions of use.

CONDITIONS TO AVOID
High temperatures (degrades resin).

MATERIALS TO AVOID
Strong oxidising agents, acids and bases.
Excess of hardener (uncontrolled polymerisation reaction).

11. TOXICOLOGICAL INFORMATION

Not available data on acute toxicity. Irritating to eyes. A mild skin irritant and mild sensitising agent.

12. ECOLOGICAL INFORMATION

MOBILITY
Low soil absorption.

DEGRADABILITY
Not easily biodegradable

ACCUMULATION
There is potential for bioaccumulation. Biomagnification is unlikely.

ECTOTOXICITY
Toxic to aquatic organisms:
(TLm96: fish 1.2mg/litre, Daphnia 2.7 mg/litre, algae 9.4mg/litre)

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:
Chemical residues are normally regarded as Special Waste. Dispose of in accordance with local and national regulations (incinerate or landfill).

DISPOSAL OF PACKAGING:
Uncleaned packaging should be treated as for the product.

14. TRANSPORT INFORMATION

UN No.
None assigned

PROPER SHIPPING NAME
Liquid epoxy resin

ADR/RID
Not classified as hazardous

IMCO
Not classified as hazardous

MFAG Table No.
EmS No.

IATA/IACO
Not classified as hazardous

PACKING GROUP

LABEL
No hazard label
15. REGULATORY INFORMATION

CLASSIFICATION

Irritant

LABEL INFORMATION

S24: Irritating to eyes and skin.
S26: May cause sensitisation by skin contact.
S28: After contact with skin, wash immediately with plenty of water.
S37/39: Wear suitable gloves and eye/face protection.

Refer to other relevant legislation such as Health and Safety at Work etc Act (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

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The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

1. PRODUCT NAME: **TRIMOL HARDENER 15, 34, 35, 36**

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS Nos.</th>
<th>EC No.</th>
<th>Weight, %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trimethylhexamethylene diamine</td>
<td>25620-58-0</td>
<td>247-134-8</td>
<td>100</td>
<td>C (Corrosive)</td>
<td>R22,34,43,52/53</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

- Corrosive – Causes burns
- Harmful if swallowed
- May cause sensitisation by skin contact
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID

- **CONTACT WITH SKIN**: Wash with plenty of soap and water. If irritation persists, obtain medical advice.
- **CONTACT WITH EYES**: Wash out with water for several minutes and seek medical advice.
- **INGESTION**: Give plenty of water – if possible, charcoal slurry. Do not induce vomiting.
- **INHALATION**: Remove to fresh air. If symptoms persist, seek medical advice.
- **OTHER INFORMATION**: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- **SUITEABLE EXTINGUISHING MEDIA**: Dry powder or foam. For small fires use CO₂. Never use water jet.
- **SPECIAL PROTECTIVE EQUIPMENT**: Full protective equipment. Toxic and irritant fumes may be produced.

6. ACCIDENTAL RELEASE MEASURES

- **PERSONAL PRECAUTIONS**: Wear suitable protective clothing which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear and overalls. Avoid contact with skin, eyes and clothing.
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbents and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Ensure adequate ventilation in work areas. Keep away from sources of ignition – no smoking. Handle and open container with care.

STORAGE INFORMATION
Keep containers tightly closed in a cool place, out of direct sunlight. Keep store well ventilated. Keep away from food and feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear protective clothing, including eye protection, boots and PVC or synthetic rubber gloves. In case of insufficient ventilation, wear suitable respiratory protective equipment. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product.

EXPOSURE LIMITS
None prescribed in EH40.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colourless liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Amine-like</td>
</tr>
<tr>
<td>pH</td>
<td>11.3 (50% in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;200°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;108°C (CC)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>6Pa (20°C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.86-0.87 (20°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>5mPa.s (25°C)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Miscible with water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY/REACTIVITY

STABILITY Stable under normal conditions of use.

CONDITIONS TO AVOID High temperatures, formation of aerosols, static discharges.

MATERIALS TO AVOID Strong oxidising agents, acids and bases.

11. TOXICOLOGICAL INFORMATION


Dermal sensitisation (guinea pig): sensitiser.

12. ECOLOGICAL INFORMATION

MOBILITY Avoid subsoil penetration

DEGRADABILITY Not easily biodegradable

ACCUMULATION There is potential for bioaccumulation. Biomagnification is unlikely.

ECTOTOXICITY Toxic to aquatic organisms.

(LC₅₀ (fish) 96h: 1000mg/litre, EC₅₀ (daphnia) 24h: 31.5mg/litre
EC₅₀ (algae) 72h: 29.5mg/litre), IC₅₀ (bacteria) 3h: 100mg/litre.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Chemical residues are normally regarded as Special Waste. Incinerate
in compliance with the Environmental Protection Act 1990 (Process
Guidance Note IPR5/1)

DISPOSAL OF PACKAGING: Uncleaned packaging should be treated as for the product. After
cleaning, can be landfilled.

14. TRANSPORT INFORMATION

UN No. 2327

PROPER SHIPPING NAME Trimethylhexamethylene diamines, solution

ADR/RID Class 8. Item 53(c).

IMCO Class 8. IMDG Code page 08243

MFAG Table No. 320

EmS No. 8.05

IATA/IACO Class 8

PACKING GROUP 3

LABEL Corrosive
15. REGULATORY INFORMATION

CLASSIFICATION

Corrosive

LABEL INFORMATION

R34: Causes burns
R22: Harmful if swallowed.
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse affects in the aquatic environment.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
S45: In case of accident or if you feel unwell, seek medical advice (show the label where possible).

Refer to other relevant legislation such as Health and Safety at Work etc Act (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

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1. PRODUCT NAME: **TRIMOL FILLERS** 35 AND 36

2. COMPOSITION

An inert, inorganic filler consisting of a mixture of silica sand and silica flour.

3. HAZARD IDENTIFICATION

Contains respirable fraction silica – harmful by inhalation.

4. FIRST AID

CONTACT WITH SKIN  
Wash with plenty of soap and water.

CONTACT WITH EYES  
Wash out with water for several minutes. Seek medical advice.

INGERIONG  
Not likely to cause any adverse affects in the amounts which could be taken.

INHALATION  
Remove to fresh air. Keep warm and at rest.

OTHER INFORMATION

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA  
As appropriate to surrounding fire.

SPECIAL PROTECTIVE EQUIPMENT  
No particular requirements.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS  
Wear respiratory protection if dust is generated.

ENVIRONMENTAL PRECAUTIONS  
No environmental hazard.

CLEAN-UP PROCEDURES  
Avoid dry sweeping and generation of dust. Damp down before shovelling into a suitable container for disposal by landfill.
7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Keep and mix in original container. If necessary, wear suitable protective clothing according to item 8.

STORAGE INFORMATION
No particular storage requirements. Keep dry to avoid deterioration.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear dust masks or the equivalent to BS2091 Type B, and provide dust extraction where dust is produced.

EXPOSURE LIMITS
Refer to HSE Guidance Note EH40 for current critical silica concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to buff-coloured powder/granules</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Melting point</td>
<td>&gt;2000°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not combustible</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Bulk density</td>
<td>2700kg/m³</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY/REACTIVITY

STABILITY
Stable.

CONDITIONS TO AVOID
No special requirements.

MATERIALS TO AVOID
None
11. TOXICOLOGICAL INFORMATION

Inert, insoluble and non-toxic. The main health hazard is inhalation of the respirable fraction silica.

12. ECOLOGICAL INFORMATION

MOBILITY Not mobile in soil.
DEGRADABILITY Inert and not biodegradable
ACCUMULATION There is no likelihood of bioaccumulation or Biomagnification
ECTOTOXICITY Not ecotoxic

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT: Dispose of by landfill in a commercial site, in accordance with local and national regulations.
DISPOSAL OF PACKAGING: As for product.

14. TRANSPORT INFORMATION

Not regulated by road, rail, sea or air.

15. REGULATORY INFORMATION

CLASSIFICATION Not classified as hazardous.
LABEL INFORMATION None

Refer to other relevant legislation such as Health and Safety at Work etc Act (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

The information contained in this safety data sheet does not constitute the user’s own assessment of workplace risk as required by health and safety legislation.

16. OTHER INFORMATION

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The data contained herein does not constitute a specification. Such information is available from the technical data sheet for the product.

TRIMOL 54 HARDENER

Material Safety Data Sheet

According to 93/112EC

Triton Chemical Manufacturing Co. Ltd.
129 Felixstowe Road, Abbeywood, London SE2 9SG
Telephone: 020 8310 3929
Fax: 020 8312 0349

MSDS Ref: TR 310
Publication date 18/4/97
Revision date 29/01/03

1. PRODUCT NAME: TRIMOL 54 HARDENER

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS Nos.</th>
<th>EC No.</th>
<th>Weight, %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetraethylenepentamine</td>
<td>112-57-2</td>
<td>203-986-2</td>
<td>1 – 10</td>
<td>C (N)</td>
<td>R36/38,43,S26,S37/38</td>
</tr>
<tr>
<td>4,4’-Isopropylidenediphenol</td>
<td>80-05-7</td>
<td>201-245-8</td>
<td>1 – 5</td>
<td>Xi</td>
<td>R36/37/38 R43</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritating to skin and eyes
May cause sensitisation by skin contact.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID

CONTACT WITH SKIN Wash with plenty of soap and water. If irritation persists, obtain medical advice.

CONTACT WITH EYES Wash out with water for at least 15 minutes and seek medical advice.

INGESTION Give plenty of water if possible, charcoal slurry. Do not induce vomiting. Obtain medical attention.

INHALATION Remove to fresh air. If symptoms persist, seek medical advice.

OTHER INFORMATION Treat symptomatically.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA Water spray, dry powder, CO\textsubscript{2} or foam. Never use water jet.

SPECIAL PROTECTIVE EQUIPMENT Full protective equipment. Toxic and irritant fumes may be produced.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Wear suitable protective clothing which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear and overalls. Avoid contact with skin, eyes and clothing.

(Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbents and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING PRECAUTIONS
Ensure adequate ventilation in work areas. Handle and open container with care. Avoid formation of aerosol.

STORAGE INFORMATION
Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated. Keep away from food and feeding stuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear protective clothing, including eye protection, boots and PVC or synthetic rubber gloves. In case of insufficient ventilation, wear suitable respiratory protective equipment. Wash hands and exposed skin before meals and after work. Do not eat, drink or smoke whilst handling the product.

EXPOSURE LIMITS
None prescribed in EH40.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Dark brown paste</td>
</tr>
<tr>
<td>Odour</td>
<td>Amine-like</td>
</tr>
<tr>
<td>pH</td>
<td>11 (50% in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Decomposes above 200°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>170°C (CC)</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>0.006Pa (25°C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.6g/cm³ (25°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Paste</td>
</tr>
<tr>
<td>Solubility</td>
<td>Partially miscible with water</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>
TRIMOL 54 HARDENER

Material Safety Data Sheet  According to 93/112EC

10. STABILITY/REACTIVITY

STABILITY
Stable under normal conditions of use.

CONDITIONS TO AVOID
High temperatures, static discharges.

MATERIALS TO AVOID
Strong oxidising agents, acids and bases.

11. TOXICOLOGICAL INFORMATION


Dermal sensitisation (guinea pig): sensitiser

12. ECOLOGICAL INFORMATION

MOBILITY
Avoid subsoil penetration.

DEGRADABILITY
Not easily biodegradable

ACCUMULATION
There is potential for bioaccumulation. Biomagnification is unlikely.

ECTOTOXICITY
Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL OF PRODUCT:
Chemical residues are normally regarded as Special Waste. Incinerate in compliance with Environment Protection Act 1990 (Process Guidance Note IPR5/1). Waste Key Number: 070204

DISPOSAL OF PACKAGING:
Uncleaned packaging should be treated as for the product. Cleaned packaging may be land-filled.

14. TRANSPORT INFORMATION

UN No.
None assigned

PROPER SHIPPING NAME
Not classified as hazardous

ADR/RID
Not classified as hazardous

IMCO
Not classified as hazardous

MFAG Table No.

Ems No.

IATA/IACO
Not classified as hazardous

PACKING GROUP
No hazard label

LABEL

15. REGULATORY INFORMATION

CLASSIFICATION               Xi  Irritant

LABEL INFORMATION

R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39: Wear suitable gloves and eye/face protection.
S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

Hazardous components which must be listed on the label:  
Tetraethylenepentamine
4, 4’- Isopropylidenediphenol

Refer to other relevant legislation such as Health and Safety at Work etc Act (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

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TRIMOL 54 RESIN

Material Safety Data Sheet

According to 93/112EC

Triton Chemical Manufacturing Co. Ltd.
129 Felixstowe Road, Abbeywood, London SE2 9SG
Telephone: 020 8310 3929
Fax: 020 8312 0349

MSDS Ref: TR 309
Publication date 27/09/2002
Revision date 29/01/2003

1. PRODUCT NAME: TRIMOL 54 RESIN

2. COMPOSITION

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>CAS Nos.</th>
<th>EC No.</th>
<th>Weight, %</th>
<th>Symbols</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A /epichlorhydrin</td>
<td>25068-38-6</td>
<td>-38</td>
<td>70 – 82</td>
<td>Xi N</td>
<td>R36/38,43, 51/53</td>
</tr>
<tr>
<td>epoxy resin (average molecular weight &lt; 700)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Irritant

Irritating to skin and eyes
May cause sensitisation by skin contact.
Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

4. FIRST AID

CONTACT WITH SKIN
Wash with plenty of soap and water. If irritation persists, seek medical advice.

CONTACT WITH EYES
Wash out with water for several minutes and seek medical advice.

INGESTION
Give plenty of water (charcoal slurry, if possible). Do not induce vomiting. Obtain medical attention.

INHALATION
Remove to fresh air. Keep warm and at rest.

OTHER INFORMATION
May aggravate existing respiratory problems.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA
Water spray, dry powder, CO₂ or foam. Never use water jet.

SPECIAL PROTECTIVE EQUIPMENT
For fires in confined spaces, use breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS
Wear suitable protective clothing appropriate to the amount involved, which may include eye/face protection, PVC or synthetic rubber gloves, protective footwear and overalls.

(Contd.)
6. ACCIDENTAL RELEASE MEASURES (contd.)

ENVIRONMENTAL PRECAUTIONS
Do not allow to enter public sewers and watercourses. If this cannot be avoided, inform the appropriate authority.

CLEAN-UP PROCEDURES
Absorb in dry sand or earth or similar absorbents and shovel into a suitable closed container for disposal according to item 13.

7. HANDLING AND STORAGE

HANDLING
ADVICE ON SAFE HANDLING
Provide sufficient air exchange and/or exhaust in work rooms. Ensure adequate ventilation. Hold and open container with care. Observe good hygiene standards and minimise skin contact. Wear suitable protective clothing according to item 8.

STORAGE
Keep containers tightly closed in a cool place, out of direct sunlight. Keep stored well ventilated. Keep away from food, drink and animal feeding stuffs.

STORAGE HAZARD CLASS:
Storage class 10, environmentally hazardous liquids.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

EXPOSURE LIMITS
None prescribed in EH40. Slight irritant, not considered hazardous.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Brown paste</td>
</tr>
<tr>
<td>Odour</td>
<td>Faint</td>
</tr>
<tr>
<td>pH</td>
<td>10 (50% suspension in water)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Decomposes above 200°C</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;200°C</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>None</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>&lt;0.1Pa (20°C)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.6 (25°C)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>Not Relevant</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble at 20°C</td>
</tr>
<tr>
<td>Miscibility in water</td>
<td>Immiscible at 20°C</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data</td>
</tr>
<tr>
<td>Other data</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY/REACTIVITY

STABILITY: Stable under normal conditions of use.

CONDITIONS TO AVOID: High temperatures (degrades resin).

MATERIALS TO AVOID: Strong oxidising agents, acids and bases.
Excess of hardener (uncontrolled polymerisation reaction).

11. TOXICOLOGICAL INFORMATION

Acute toxicity. LD_{50} (rat, oral) >5000 mg/kg. Irritating to eyes. A mild skin irritant and mild sensitising agent.

12. ECOLOGICAL INFORMATION

MOBILITY: Prevent product from entering drains. Avoid subsoil penetration. Do not contaminate surface water.

BIO DEGRADABILITY: Not easily biodegradable

ACCUMULATION: There is potential for bioaccumulation. Biomagnification is unlikely.

ECTOTOXICITY: Toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS


DISPOSAL OF PACKAGING: Uncleaned packaging should be treated as for the product. Cleaned packaging may be land-filled.

14. TRANSPORT INFORMATION

UN No.: 3082
ADR/RID: Class 9
PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid, N.O.S. – Bisphenol A epoxy resin.
IATA/DGR: See: Proper Shipping Name
PACKING GROUP: III
PACKING INSTRUCTION (Cargo Aircraft): 914
ADR/RID LABEL: 9
15. REGULATORY INFORMATION

CLASSIFICATION
- Irritant (Xi)
- Dangerous to the Environment (N)

LABEL INFORMATION

- R36/38: Irritating to eyes and skin.
- R43: May cause sensitisation by skin contact.
- R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
- S28: After contact with skin, wash immediately with plenty of water.
- S37/39: Wear suitable gloves and eye/face protection.
- S61: Avoid release to the environment. Refer to special instructions (Safety data sheets).

Refer to other relevant legislation such as Health and Safety at Work etc Act (HSWA), the Control of Substances Hazardous to Health Regulations (COSHH), the Environment Protection Act and the Control of Pollution Act.

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