

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product name** CTL CLEARCAST POLYURETHANE KIT – RESIN**Company** CTL COMPONENTS  
FALCONHOUSE  
19 DEER PARK ROAD  
LONDON  
SW19 3UX  
Tel: +44 (0) 20 85458700  
FAX: +44 (0) 20 8540 0034  
E-mail: info@ctl-components.com  
Web site: www.ctl-components.com**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Not applicable

**3. HAZARDS IDENTIFICATION****Specific hazards** No hazards resulting from material as supplied.**4. FIRST AID MEASURES****Skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.  
**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.  
**Inhalation** Move to fresh air. Consult a physician after significant exposure.  
**Ingestion** If swallowed, seek medical advice immediately and show this container or label. Drink plenty of water. Ingest immediately about 350 ml (5 ml/kg body weight) of activated charcoal slurry. Do not induce vomiting. Never give anything by mouth to an unconscious person. Note: To prepare activated charcoal slurry, mix thoroughly 50 g of activated charcoal in 400 ml (about 2 cups) water.  
**General advice** If you feel unwell, seek medical advice (show the label where possible).**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>), foam, dry chemical, water spray  
**Specific hazards** Burning produces irritant fumes.  
**Special protective equipment for firefighters** In the event of fire, wear self-contained breathing apparatus.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions** Use personal protective equipment. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.  
**Environmental precautions** Ensure adequate ventilation. Avoid subsoil penetration. Prevent product from entering drains. Do not allow material to contaminate ground water system.  
**Methods for cleaning up** Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approximately one hour transfer to waste container and do not seal (evolution of CO<sub>2</sub>!).**7. HANDLING AND STORAGE****Handling** Avoid contact with skin and eyes. Ensure adequate ventilation or exhaust ventilation in the working area. Do not smoke.  
**Storage** Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store together with food, feedstuffs, fertilizers and other sensitive materials.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Occupational exposure controls</b>	Keep away from food, drink and animal feeding stuffs.
<b>Respiratory protection</b>	Respiratory protection required in insufficiently ventilated working areas and during spraying. Wear respirator with dust filter during machining of slab.
<b>Hand protection</b>	Rubber gloves PVC or other plastic material gloves
<b>Eye protection</b>	face-shield tightly fitting safety goggles
<b>Skin and body protection</b>	Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Description</b>	Liquid
<b>Colour</b>	Beige
<b>Odour</b>	not significant

**10. STABILITY AND REACTIVITY**

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Materials to avoid amines steam
<b>Hazardous decomposition products</b>	Carbon monoxide carbon oxides nitrogen oxides (NOx) isocyanides hydrogen cyanide (hydrocyanic acid)

**11. TOXICOLOGICAL INFORMATION**

<b>Sensitisation</b>	May cause Sensitisation of susceptible persons by skin contact.
<b>Repeated or prolonged exposure</b>	Prolonged skin contact may cause skin irritation.

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity effects</b>	No data is available on the product itself.
<b>Persistence and degradability</b>	Not inherently biodegradable.

**13. DISPOSAL CONSIDERATIONS**

<b>General Information</b>	Can be incinerated, when in compliance with the Environment Protection Act 1990 (Process Guidance Note IPR5/1)
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**14. TRANSPORT INFORMATION**

<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.
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**15. REGULATORY INFORMATION**

None

**16. OTHER INFORMATION**

None

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product name** CTL CLEARCAST POLYURETHANE KIT – HARDENER**Company** CTL COMPONENTS  
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Tel: +44 (0) 20 85458700  
FAX: +44 (0) 20 8540 0034  
E-mail: info@ctl-components.com  
Web site: www.ctl-components.com**2. COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous components** diphenyl methane-4,4 diisocyanate, isomers, homologues:(MDI, polymer MDI) 90-100%  
CAS: 9016-87-9  
EINECS: 615-005-01-6  
Xn;R20 Xi;R36 Xi;R37 Xi;R38 Xn;R42**3. HAZARDS IDENTIFICATION****Most important hazards** Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.**4. FIRST AID MEASURES****Skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.**Inhalation** Move to fresh air. Consult a physician after significant exposure. Oxygen or artificial respiration if needed.**Ingestion** If swallowed, seek medical advice immediately and show this container or label. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.**General advice** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media** dry chemical, dry powder, dry sand, alcohol-resistant foam, carbon dioxide (CO2)  
**Extinguishing media which must not be used for safety reasons** high volume water jet**Specific hazards** Fire may cause highly toxic or corrosive fumes to evolve.**Special protective equipment for firefighters** In the event of fire, wear self-contained breathing apparatus.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions** Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Contaminated surfaces will be extremely slippery.**Environmental Precautions** Avoid subsoil penetration. Do not allow material to contaminate ground water system. Prevent product from entering drains. Prevent further leakage or spillage. Do not contaminate surface water.**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Flush with plenty of water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Do not smoke. Handle and open container with care. Keep away from open flames, hot surfaces and sources of ignition. Provide sufficient air exchange and/or exhaust in work rooms. wear personal protective equipment Take precautionary measures against static discharges.
<b>Storage</b>	Keep at temperatures between 15 and 25 °C. Keep container tightly closed in a dry and well -ventilated place. Do not store near acids.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Occupational exposure controls</b>	Keep away from food, drink and animal feeding stuffs.
<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Hand protection</b>	rubber or plastic gloves
<b>Eye protection</b>	face-shield safety glasses with side-shields tightly fitting safety goggles
<b>Skin and body protection</b>	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Rubber or plastic apron

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	liquid
<b>Colour</b>	amber
<b>Odour</b>	Musty
<b>Flash point</b>	230°C
<b>Relative density</b>	1.23

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Exothermic reaction with strong acids
<b>Materials to avoid</b>	acids oxidising agents Incompatible with acids and bases. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
<b>Hazardous decomposition products</b>	Carbon monoxide carbon oxides isocyanides Ammonia hydrogen cyanide (hydrocyanic acid) nitrogen (NOx)

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	Harmful by inhalation, in contact with skin and if swallowed. Persons allergic to isocyanate, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanate. Chronic inhalation causes tiredness, headache and rhinitis. cough
<b>Primary irritation</b>	Irritating to respiratory system and skin. The product causes irritation of eyes, skin and mucous membranes. Causes burn.
<b>Sensitisation</b>	May cause Sensitisation by inhalation and skin contact. Causes sensitisation.
<b>Repeated or prolonged exposure</b>	Repeated or prolonged contact causes Sensitisation, asthma and eczemas.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity effects</b>	Acute daphnia toxicity: EC50=1000mg/l 24H
<b>Persistence and degradability</b>	Not inherently biodegradable.


## 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Can be incinerated, when in compliance with the Environment Protection Act 1990 (Process Guidance Note IPR5/1) Dispose of in accordance with local regulations.
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## 14. TRANSPORT INFORMATION

<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations.
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## 15. REGULATORY INFORMATION

<b>Symbol(s):</b>	Xn - Harmful
	
<b>R-phrases(s)</b>	R20 - Harmful by inhalation. R36/37/38 - Irritating to eyes, respiratory system and skin. R42 - May cause sensitization by inhalation.
<b>S-phrases(s)</b>	S22 - Do not breathe dust. S23 - Do not breathe gas/fumes/vapour/spray. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

## 16. OTHER INFORMATION

Text of R phrases mentioned in Section 2	R20 - Harmful by inhalation. R36 - Irritating to eyes. R37 - Irritating to respiratory system. R38 - Irritating to skin. R42 - May cause sensitization by inhalatio
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