

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

CRACKBOND TE

HELIFIX LTD
21 Warple Way
London W3 ORX England
Tel: +44 (0)208 735 5200
Fax: +44 (0)208 735 5201

2. COMPOSITION/INFORMATION ON INGREDIENTS

Contains epoxy resin (<50%), xylene diamine (<15%), tert-butylphenol (<15%), trimethylhexamethylenediamine (<5%) and diethylenetriamine (<5%).

Epoxy resin: CAS No: 25068-38-6 Symbol: Xi
Risk phrases: R36/38-43

Xylene diamine: CAS No: 1477-55-0 Symbol: C
Risk phrases: R22-34

Tert-butylphenol: CAS No: 98-54-4 Symbol: Xn
Risk phrases: R36/37/38-42/43

Trimethylhexamethylenediamine: CAS No: 25620-58-0
Symbol: C Risk phrases: R22-34-43

Diethylenetriamine: CAS No: 111-40-0 Symbol: C
Risk phrase: R21/22-34-43

3. HAZARDS IDENTIFICATION

Corrosive, causes burns
May cause sensitisation by inhalation and skin contact

4. FIRST AID MEASURES

Inhalation: May lead to irritation, if so move to fresh air. In case of inflammation of respiratory tract or mucous membranes seek medical advice.

Skin Contact: Corrosive, may cause sensitisation, dermatitis or burns. Wash with plenty of soap and water. Do not use organic solvents. If symptoms persist seek medical advice.

Eye Contact: Corrosive, may cause irritation, redness or burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately.

Ingestion: May cause irritation or burns. Do not induce vomiting. Rinse mouth out with clean water. If swallowed drink plenty of water or milk. Seek medical attention immediately.

This sheet should be shown to emergency services/medical staff.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam/water fog/dry powder/CO2
Do not use water jet

Exposure hazards: May give rise to noxious fumes including ammonia and oxides of carbon if burnt.

Protective equipment: Self contained breathing apparatus may be required for serious fires involving the hardener.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Suitable protective clothing (overalls), rubber or plastic coated gloves, eye/face protection is advised. Do not breathe vapour, avoid sources of ignition.

Environmental Precautions: Prevent contamination of soil, drains and surface waters. Inform police and local authority if material reaches public drains or waterways.

Methods for cleaning up: Absorb onto sand or other inert material. Shovel the resultant mass into a suitable closed container to await disposal.

7. HANDLING & STORAGE

Handling: Corrosive. Sensitising. Avoid vapour formation. Ensure good ventilation and local exhaust. Smoking, eating, drinking and the preparation of foodstuffs prohibited where materials are stored or handled.

Storage: Store in cool, well ventilated conditions away from direct sunlight.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory protection: Ensure adequate ventilation, forced if necessary.

Hand protection: Wear rubber or plastic coated gloves.

Eye protection: Safety glasses/goggles or other face protection advised. **Skin protection:** Overalls and enclosed footwear.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Plastic cartridge containing pale blue paste (resin) in outer compartment and brick red paste (hardener) in inner compartment.

Odour: Ammoniacal Flash point: 100°C
Rel.density: approx. 1.1 pH: Alkaline
Solubility in water: Partial Vapour Pressure: <10Pa @20°C

10. STABILITY & REACTIVITY

Conditions to avoid: High temperatures, static discharges.

Materials to avoid: Strong acids, strong bases and strong oxidising agents.

Hazardous decomposition products: May give rise to noxious vapours including oxides of carbon and nitrogen if burnt.

11. TOXICOLOGICAL INFORMATION

Eye irritation: Corrosive Skin irritation: Corrosive
Sensitisation: May cause sensitisation by inhalation or skin contact.

12. ECOLOGICAL INFORMATION

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately.

13. DISPOSAL CONSIDERATIONS

Incineration or landfill in accordance with local regulations. Contaminated packaging material should be disposed of identically to the product itself. Non contaminated packaging material should be treated as household waste or as recycling material. Cured material may be considered inert and disposed of as builders waste.

14. TRANSPORT INFORMATION

ADR UN 1760 Class 8 Item 66 (c) HIN80
IATA UN 1760 Class 8 Packing Group III
IMDG UN 1760 Class 8 Packing Group III Page 8147(English)

15. REGULATORY INFORMATION

Contains: Epoxy constituents, Xylene diamine, tert-butylphenol, trimethylhexamethylenediamine and diethylenetriamine.
Symbol: C

R34: Causes burns
R42/43: May cause sensitisation by inhalation and skin contact
S23: Do not breathe vapour
S26: In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

Control of Pollution Act 1974 & Control of Pollution Act (Special Waste) 1980 & 1988; HSE "EH40."

The information contained in this Safety Data Sheet does not constitute the user's own assessment of workplace risk as required by Health & Safety Legislation.

16. OTHER INFORMATION

For use of this material please refer to the current technical data sheet. The above information is based on our present knowledge, and is intended to describe the product in terms of Health & Safety requirements only.

Compilation date 2nd April 1996
Revised: 16th November 1998

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

HeliBond MM2

HELIFIX LTD
21 Warple Way
London W3 ORX England
Tel: +44 (0)208 735 5200
Fax: +44 (0)208 735 5201

POWDER COMPONENT (1 OF 2)

2. COMPOSITION OF INGREDIENTS

Contains a dry blend of Portland cement and inert mineral fillers.
EEC Symbol: XI
Risk phrases: R36

3. HAZARDS IDENTIFICATION

Alkaline when wet.
Irritating to eyes

4. FIRST AID MEASURES

Eye Contact: May cause superficial burns. Wash immediately with copious amounts of cool, clean water. Seek medical attention immediately.

Inhalation: May lead to irritation or inflammation. Remove to fresh air. If symptoms persist seek medical attention.

Skin Contact: May cause superficial burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately.

Ingestion: Rinse mouth with clean water. If swallowing has occurred drink plenty of milk or water. Do not induce vomiting. Seek medical attention immediately. This sheet should be shown to emergency services and medical staff.

5. FIRE FIGHTING MEASURES

Non flammable material. Does not support combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Suitable protective clothing (overalls), rubber or plastic coated gloves, eye/face protection is advised. Ensure adequate ventilation.

Environmental Precautions: Do not allow into drains or water courses.

Methods for cleaning up: Use water spray or ventilated vacuum system.

7. HANDLING & STORAGE

Handling: Use techniques which minimise contact with the powder and the creation of airborne dust.

Storage: Store in cool, dry conditions.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Refer to the latest edition of HSE EH40 for up to date MEL's and OEL's of inhalable and respirable dust.

Respiratory Protection: Inhalation of cement dust should be avoided. Where airborne dust is present use mask to BS2091 Type B.

Hand Protection: Barrier cream and plastic/rubber gloves.

Eye Protection: Safety glasses/goggles or face shield.

Skin Protection: Suitable protective clothing (overalls) and enclosed footwear. Wash hands after each work period and before eating.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Grey particulate solid

Solubility in water: Insoluble

Odour: None

10. STABILITY & REACTIVITY

Conditions to avoid: Keep material dry.

Materials to avoid: None when used as specified

Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION

Total inhalable dust = 10mg/m³ 8 hour T.W.A.

Respirable dust = 5mg/m³ 8 hour T.W.A.

Inhalation: May lead to irritation or inflammation.

Skin Contact: Irritant, may cause superficial burns.

Eye Contact: Irritant, may cause superficial burns.

12. ECOLOGICAL INFORMATION

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately.

13. DISPOSAL CONSIDERATIONS

Surplus powder and empty packaging should be disposed of at a place accepting builders waste. Keep dry.

14. TRANSPORT INFORMATION

Not currently classified as hazardous for transport.

15. REGULATORY INFORMATION

XI	Irritant
R36	Irritating to eyes
S22	Do not breath dust
S24/25	Avoid contact with skin and eyes
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

Refer to the latest edition of HSE EH40 for up to date MEL's and OEL's .

The information contained in this Safety Data Sheet does not constitute the user's own risk/assessment as required by Health & Safety Legislation.

16. OTHER INFORMATION

Cement based products are not currently classified as hazardous materials.

For use of this material please refer to the current technical data sheet.

Compilation Date 24 September 1994

Revision Date: 14 August 1998

LIQUID COMPONENT (2 OF 2)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Aqueous dispersion of a styrene-butadiene co-polymer

3. HAZARDS IDENTIFICATION

Not regarded or currently classified as a hazardous material.

4. FIRST AID MEASURES

Eye contact: May cause slight irritation and soreness. Wash immediately with plenty of clean water. Seek medical attention if symptoms persist.

Skin Contact: May cause slight irritation. Wash immediately with plenty of soap and water.

Ingestion: May cause nausea. Wash mouth out with clean water.

Do not induce vomiting. If swallowing has occurred drink plenty of milk or water. Seek medical advice. This sheet should be shown to emergency services or medical staff.

5. FIRE FIGHTING MEASURES

Non flammable material. Does not support combustion. However, dried resin will burn emitting dense black smoke and noxious fumes. In such cases, self contained breathing apparatus will be required.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Suitable protective clothing (overalls), rubber or plastic coated gloves, eye/face protection is advised. Ensure adequate ventilation.

Environmental Precautions: Do not allow into drains or water courses.

Methods for cleaning up: Large spillages should be contained and pumped into a vessel. Small spillages should be absorbed onto sand/inert material.

Shovel the resultant mess into a suitable container.

7. HANDLING & STORAGE

Handling: Avoid rough handling. Use measures that avoid repeated skin contact.

Storage: Store in cool, dry, frost free conditions.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Respiratory Protection: None required when used as specified. Ensure adequate ventilation.

Hand Protection: Wear suitable rubber or plastic coated gloves.

Eye Protection: Wear safety goggles, glasses or face shield.

Skin Protection: Normal work clothes/overalls and closed footwear.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Liquid, milky white

Solubility in water: Totally miscible

Odour: Faint, aromatic Rel.Density: 1.0 pH: 9.0-10.0

Boiling Point: 100°C

10. STABILITY & REACTIVITY

Conditions to avoid: Freezing temperatures.

Materials to avoid: None when used as specified.

Hazardous decomposition products: If dried resin is burnt, it may produce carbon monoxide and hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Available data indicates low toxicity. Long term experience of this product indicates no danger to health when handled under industrial conditions.

12. ECOLOGICAL INFORMATION

The product is miscible with water and could be transported considerable distances if allowed to enter waterways. Even low concentrations in water give a pronounced white appearance. The product will degrade only very slowly in the environment. There is no evidence of any tendency for bioaccumulation. In low concentration (<100mg/litre) latex exhibits low toxicity to fish, but in higher concentrations may be harmful to fish and aquatic life. Low concentrations of latex in water for sewage treatment do not affect the biomass; the polymer particles are absorbed onto the sludge and eliminated from the waste stream.

13. DISPOSAL CONSIDERATIONS

Waste latex must not be discharged directly into drains or waterways without treatment. The polymer content may be separated by coagulation and disposed of to landfill or by incineration. Waste water containing latex may be treated by coagulation/setting, flotation or ultrafiltration. Disposal should always comply with local, national or EC regulations.

14. TRANSPORT INFORMATION

Not currently classified as hazardous for transport.

15. REGULATORY INFORMATION

S13 Keep away from food, drink and animal feedstuffs
S36/39 Wear suitable protective clothing

The information contained in this Safety Data Sheet does not constitute the user's own risk/assessment as required by Health & Safety Legislation.

16. OTHER INFORMATION

Aqueous dispersions of a styrene-butadiene co-polymer are not currently classified as a hazardous material.
For use of this material please refer to the current technical data sheet.

Compilation Date 24 September 1994

Revision Date 14 August 1998

INSKEW 45, INSKEW 600, TURBOFAST 6, TURBOFAST 8 **STAINLESS STEEL FIXINGS**

C O S H H REGULATIONS (1988)

Introduction

The listed products in normal use do not fall within the meaning of "substances hazardous to health" in COSHH. Only if they are subjected to some process outside of their recommended area of use and beyond our control does it seem possible that the regulations might apply. If this situation could arise then it is the responsibility of the user to assess the health risk that may be involved and we, as prime supplier, will be only too pleased to provide any information needed.

Despite the above comments we give below some basic information on the products which may help in laying down basic housekeeping procedures and recommendations to operatives.

Material

InSkews and TurboFasts are made from either grade 304 or 316 austenitic stainless steel.

Handling Storage Transport

Care should always be taken when handling InSkews and TurboFasts to avoid laceration by the points or sharp edges of the helix.

No special precautions are necessary with regard to the handling of the packages, their transport or storage, other than compliance with good housekeeping practices.

Guidance to Operators

InSkews and TurboFasts are produced under normal factory conditions. The products are made from stainless steel and are supplied dry and clean by industrial standards. However, they inevitably will have a certain amount of dust and lubricant left on the surface.

It is recommended that the products are not held in the mouth prior to insertion.

The fixings are pointed at one end and are cropped at the other. It is important that any hammer used to drive the fixing is in good condition and does not have a head which is excessively worn or rounded. A sub-standard hammer will make it difficult to strike the fixing squarely, leading to bending of the fixing and bruised fingers!

Continued.....

Special notes

When using the longer lengths of fixing - generally lengths in excess of 125mm the use of a support tool to prevent bending is recommended. Helifix can provide a hand tool or a power tool attachment for this purpose.

Technical Support

If any further information is required regarding the application or characteristics of the fixings our sales office will be only too pleased to help.

COSHH

Helifix Ltd
August 1998
Tel: +44 (0) 208 735 5200
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Stainless Steel Wall Ties

New Build

TimTie
MorTie
TurboTie
StarTie

Remedial

RetroTie
ResiTie
BowTie
CemTie
CemenTie
DryFix

Reinforcement

HeliBar

C O S H H REGULATIONS (1988)

Introduction

The listed products in normal use do not fall within the meaning of "substances hazardous to health" in COSHH. Only if they are subjected to some process outside of their recommended area of use and beyond our control does it seem possible that the regulations might apply. If this situation could arise then it is the responsibility of the user to assess the health risk that may be involved and we, as prime supplier, will be only too pleased to provide any information needed.

Despite the above comments we give below some basic information on the products which may help in laying down basic housekeeping procedures and recommendations to operatives.

Material

All products are made from either grade 304 or 316 austenitic stainless steel except for DryFix ties which are made from grade 316 as standard.

Handling Storage Transport

Care should always be taken when handling the products to avoid laceration by the points or the sharp edges of the helix.

No special precautions are necessary with regard to the handling of the packages, their transport or storage, other than compliance with good housekeeping practices.

Guidance to Operators

The wall ties are produced under normal factory conditions. The products are made from stainless steel and are supplied dry and clean by industrial standards. However, they inevitably will have a certain amount of dust and lubricant left on the surface.

It is recommended that the products are not held in the mouth prior to insertion.

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Insertion Tools

New Build Ties

TimTies and TurboTies need to be inserted using support tools to prevent them bending and to allow them to be driven across the mortar bed without disturbing the brickwork. MorTies do not require any special tools.

Remedial Ties

RetroTie, DryFix and BowTie remedial ties are installed using special support tools which are usually driven by an electric hammer drill, but hand held tools may be used on some minor works. ResiTie and CemTies are more easily positioned using a hand held tool. CemTies are positioned using the HeliBond pinning nozzle. We supply all the necessary types of tooling.

Technical Support

If any further information is required regarding the application or characteristics of the fixings our sales office will be only too pleased to help.

COSHH
Revision 2

HELIFIX LTD

January 1996

Tel: +44 (0) 208 735 5200

Fax: +44 (0) 208 735 5201

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

POLYPLUS 380 RESIN

POLYPLUS 150 RESIN

Helifix Ltd

21 Warple Way

London W3 ORX ENGLAND

Tel: +44 (0)208 735 5200

Fax: +44 (0)208 735 5201

2. COMPOSITION/INFORMATION ON INGREDIENTS

Polyester resin in styrene. Contains 15%-25% styrene
Styrene: EEC No. 202-851-5 Index No. 601-026-00-0
Cas No. 100-42-5

EEC Symbol: Xn Risk phrases: R10-20-36/38

3. HAZARDS IDENTIFICATION

Flammable

May cause headaches, dizziness and drowsiness by inhalation.
May cause superficial burns in contact with skin and eyes.

4. FIRST AID MEASURES

Inhalation: May lead to irritation or inflammation. May cause headaches, dizziness and drowsiness; if so remove to fresh air. If symptoms persist seek medical attention.

Skin Contact: May lead to sensitisation/dermatitis, may cause superficial burns. Wash with plenty of soap and water.

Eye Contact: May cause superficial burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately.

Ingestion: Rinse mouth with clean water. If swallowing has occurred drink plenty of milk or water. Do not induce vomiting. Seek medical attention immediately. This sheet should be shown to emergency services and medical staff.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Foam, carbon dioxide, dry powder, water fog.

Do not use water jet.

Exposure Hazards: Carbon monoxide, carbon dioxide and nitrogen oxides are liberated when the resin is involved in a fire.

Protective Equipment: Self contained breathing apparatus may be required for serious fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Suitable protective clothing (overalls), rubber or plastic coated gloves, eye/face protection is advised. Ensure adequate ventilation. Remove all sources of ignition.

Environmental Precautions: Inform police and local authority if material reaches public drains or waterways.

Methods for cleaning up: Absorb onto sand or other inert material. Shovel the resultant mess into a suitable closed container. Eliminate all sources of ignition.

7. HANDLING & STORAGE

Handling: Irritant. Avoid vapour formation. Ensure good ventilation and local exhaust. Smoking, eating, drinking and the preparation of foodstuffs prohibited where materials are stored or handled.

Storage: Store in cool, dry, well ventilated conditions away from direct sunlight and sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute):
Ref EH40(1994) - Styrene

Respiratory Protection: Ensure adequate ventilation, forced in enclosed spaces. Self contained breathing apparatus may be necessary if adequate ventilation is not possible.

Hand Protection: Barrier cream and plastic/rubber gloves.

Eye Protection: Safety glasses/goggles or face shield.

Skin Protection: Suitable protective clothing (overalls) and enclosed footwear. Wash hands after each work period and before eating.

Compilation Date 24 September 1994

Revised 16 November 1998

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Plastic two component cartridge containing pastes. Resin in the outer compartment, Benzoyl peroxide activator in the inner compartment

Odour: Sweet **Vapour Press:** 1000Pa @20°C

Flash Point: 32°C **Rel. Density:** 1.8

Boil Point: 145°C **Solubility in water:** Insoluble

10. STABILITY & REACTIVITY

Conditions to avoid: High temperatures, sources of ignition.

Materials to avoid: Strong oxidising agents; may cause exothermic reaction.

Hazardous decomposition products: On heating, carbon monoxide, carbon dioxide, nitrogen oxides formed.

11. TOXICOLOGICAL INFORMATION

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute):
Ref:EH40(1994) - Styrene.

Inhalation: May lead to irritation or inflammation. May cause headaches, dizziness and drowsiness.

Ingestion: LD50(oral,rat) 5000mg/kg.

Skin Contact: Irritant, may lead to sensitisation/dermatitis; may cause superficial burns.

Eye Contact: Irritant, may cause superficial burns.

12. ECOLOGICAL INFORMATION

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately. Classified under the IMDG code as a marine pollutant.

13. DISPOSAL CONSIDERATIONS

Dispose of resin and cans by incineration or landfill, by an approved contractor, according to local or national regulations. The cured product may be considered inert, and disposed of identically to the product itself. Non-contaminated packaging material should be treated as household waste or as recycling material.

14. TRANSPORT INFORMATION

ADR	UN 1866 class 3	Item 31?(C)	HIN 30
IATA	UN 1866 class3	Packing Group III	
IMDG	UN 1866 Class 3.3	Packing Group III Page 3379 (English)	Marine pollutant

15. REGULATORY INFORMATION

Contains Styrene

Xn Harmful

R10 Flammable

R20 Harmful by inhalation

R36/38 Irritating to eyes and skin

S23 Do not breath vapour

S36/37/39 Wear suitable protective clothing gloves and eye/face protection

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute):
Ref EH40(1994) - Styrene

Control of Pollution Act 1974 & Control of Pollution Act (Special Waste) 1980 & 1988; HSE "EH40"

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by other Health & Safety legislation.

16. OTHER INFORMATION

For use of this material please refer to the current data sheet sheet.

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

POLYPLUS HT RESIN

HELIFIX LTD
21 Warple Way
London W3 0RX ENGLAND

Tel: +44 (0)208 735 5200
Fax: +44 (0)20 8 735 5201

2. COMPOSITION/INFORMATION ON INGREDIENTS

Polyester resin in styrene. Contains 15%-20% styrene
Styrene: EEC No. 202-851-5 Index No. 601-026-00-0
Cas No. 100-42-5
EEC Symbol: Xn Risk phrases: R10-20-36/38

3. HAZARDS IDENTIFICATION

Flammable
May cause headaches, dizziness and drowsiness by inhalation.
May cause superficial burns in contact with skin and eyes.

4. FIRST AID MEASURES

Inhalation: May lead to irritation or inflammation. May cause headaches, dizziness and drowsiness; if so remove to fresh air. If symptoms persist seek medical attention.

Skin Contact: May lead to sensitisation/dermatitis, may cause superficial burns. Wash with plenty of soap and water.

Eye Contact: May cause superficial burns. Wash immediately with copious amounts of clean water. Seek medical attention immediately.

Ingestion: Rinse mouth with clean water. If swallowing has occurred drink plenty of milk or water. Do not induce vomiting. Seek medical attention immediately. This sheet should be shown to emergency services and medical staff.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Foam, carbon dioxide, dry powder, water fog.

Do not use water jet.

Exposure Hazards: Carbon monoxide, carbon dioxide and nitrogen oxides are liberated when the resin is involved in a fire.

Protective Equipment: Self contained breathing apparatus may be required for serious fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Suitable protective clothing (overalls), rubber or plastic coated gloves, eye/face protection is advised. Ensure adequate ventilation. Remove all sources of ignition.

Environmental Precautions: Inform police and local authority if material reaches public drains or waterways.

Methods for cleaning up: Absorb onto sand or other inert material. Shovel the resultant mess into a suitable closed container. Eliminate all sources of ignition.

7. HANDLING & STORAGE

Handling: Irritant. Avoid vapour formation. Ensure good ventilation and local exhaust. Smoking, eating, drinking and the preparation of foodstuffs prohibited where materials are stored or handled.

Storage: Store in cool, dry, well ventilated conditions away from direct sunlight and sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute): Ref EH40(1994) - Styrene

Respiratory Protection: Ensure adequate ventilation, forced in enclosed spaces. Self contained breathing apparatus may be necessary if adequate ventilation is not possible.

Hand Protection: Barrier cream and plastic/rubber gloves.

Eye Protection: Safety glasses/goggles or face shield.

Skin Protection: Suitable protective clothing (overalls) and enclosed footwear. Wash hands after each work period and before eating.

Compilation Date 2nd April 1996

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Plastic two component cartridge containing pastes. Resin in the outer compartment, Benzoyl peroxide activator in the inner compartment

Odour: Sweet **Vapour Press:** 1000Pa @20°C

Flash Point: 32°C **Rel. Density:** 1.8

Boil Point: 145°C **Solubility in water:** Insoluble

10. STABILITY & REACTIVITY

Conditions to avoid: High temperatures, sources of ignition.

Materials to avoid: Strong oxidising agents; may cause exothermic reaction.

Hazardous decomposition products: On heating, carbon monoxide, carbon dioxide, nitrogen oxides formed.

11. TOXICOLOGICAL INFORMATION

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute):

Ref:EH40(1994) - Styrene.

Inhalation: May lead to irritation or inflammation. May cause headaches, dizziness and drowsiness.

Ingestion: LD50(oral,rat) 5000mg/kg.

Skin Contact: Irritant, may lead to sensitisation/dermatitis; may cause superficial burns.

Eye Contact: Irritant, may cause superficial burns.

12. ECOLOGICAL INFORMATION

Do not allow the material to enter water courses. If water is contaminated inform the relevant authorities immediately. Classified under the IMDG code as a marine pollutant.

13. DISPOSAL CONSIDERATIONS

Dispose of resin and cans by incineration or landfill, by an approved contractor, according to local or national regulations. The cured product may be considered inert, and disposed of identically to the product itself. Non-contaminated packaging material should be treated as household waste or as recycling material.

14. TRANSPORT INFORMATION

ADR	UN 1866 class 3	Item 31?(C)	HIN 30
IATA	UN 1866 class3	Packing Group III	
IMDG	UN 1866 Class 3.3	Packing Group III Page 3379 (English)	Marine pollutant

15. REGULATORY INFORMATION

Contains Styrene

Xn Harmful

R10 Flammable

R20 Harmful by inhalation

R36/38 Irritating to eyes and skin

S23 Do not breath vapour

S36/37/39 Wear suitable protective clothing gloves and eye/face protection

MEL: 100ppm LTEL (8 hour TWA), 250ppm STEL (10 minute): Ref EH40(1994) - Styrene

Control of Pollution Act 1974 & Control of Pollution Act (Special Waste) 1980 & 1988; HSE "EH40"

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by other Health & Safety legislation.

16. OTHER INFORMATION

For use of this material please refer to the current technical data sheet.

INSKEW 45, INSKEW 600, TURBOFAST 6, TURBOFAST 8 STAINLESS STEEL FIXINGS

C O S H H REGULATIONS (1988)

Introduction

The listed products in normal use do not fall within the meaning of "substances hazardous to health" in COSHH. Only if they are subjected to some process outside of their recommended area of use and beyond our control does it seem possible that the regulations might apply. If this situation could arise then it is the responsibility of the user to assess the health risk that may be involved and we, as prime supplier, will be only too pleased to provide any information needed.

Despite the above comments we give below some basic information on the products which may help in laying down basic housekeeping procedures and recommendations to operatives.

Material

InSkews and TurboFasts are made from either grade 304 or 316 austenitic stainless steel, or Zinc Plated Carbon Steel.

Handling Storage Transport

Care should always be taken when handling InSkews and TurboFasts to avoid laceration by the points or sharp edges of the helix.

No special precautions are necessary with regard to the handling of the packages, their transport or storage, other than compliance with good housekeeping practices.

Guidance to Operators

InSkews and TurboFasts are produced under normal factory conditions. The products are made from stainless or carbon steel and are supplied dry and clean by industrial standards. However, they inevitably will have a certain amount of dust and lubricant left on the surface.

It is recommended that the products are not held in the mouth prior to insertion.

The fixings are pointed at one end and are cropped at the other. It is important that any hammer used to drive the fixing is in good condition and does not have a head which is excessively worn or rounded. A sub-standard hammer will make it difficult to strike the fixing squarely, leading to bending of the fixing and bruised fingers!

Continued.....

Special notes

When using the longer lengths of fixing - generally lengths in excess of 125mm the use of a support tool to prevent bending is recommended. Helifix can provide a hand tool or a power tool attachment for this purpose.

Technical Support

If any further information is required regarding the application or characteristics of the fixings our sales office will be only too pleased to help.

COSHH

Helifix Ltd
August 1998
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Fax: +44 (0) 208 735 5201