

MATERIAL SAFETY DATA SHEET

1. Identification

Company Trade Name	KeyGrip 924 (Part A Epoxy) Type One
Application	Anti-skid/Traffic Calming
Manufacturer/Supplier	Trustseal Limited, Unit 10 Southfield Lane Ind. Est., Whitwell, Worksop, S80 4NW
Emergency and Customer Enquiries	Tele (01909) 722662 Fax (01909) 720228

2. Composition

General	A blend of modified liquid Epoxy resin, with a mixture of monocarboxylic acid of alkylated cycloalkenes
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3. Hazard Identification

Safety Phrase	Irritant S24/25 S36/37 S45 S61
Risk Phrase	R36/37 R43 R45 R48/21 R50 R53

4. First Aid Measures

Inhalation	Remove to fresh air. If symptoms persist obtain medical assistance.
Eyes	Flush thoroughly with copious amounts of water until irritation subsides. If irritation persists obtain medical assistance
Skin	Wash with plenty of soap and water.
Ingestion	Do not induce vomiting. If conscious give plenty water. Seek medical assistance.

5. Fire Fighting Measures

Suitable extinguishing media

Carbon Dioxide, foam, dry powder and water fog. DO NOT USE WATER JET.

Special exposure hazards

Special protective equipment for fire fighters

Fires should be dealt with by trained personnel wearing approved breathing apparatus with full piece and positive air supply.

6. Accidental Release Measures

Personal precautions Wear gloves and goggles.

Environmental precautions Do not allow to enter drains, sewers or watercourses.

Methods for cleaning up Absorb in inert powder and sweep into suitable containers and dispose of according to Local and National Regulations.

7. Handling and Storage

Handling Personnel should wear PVC gloves and goggles

Storage Store in tightly closed drums. Protect from frost.

8. Exposure Control/Personal Protection

Respiratory protection Wear suitable face masks in confined spaces.

Hand protection Wear gloves.

Eye protection Wear face mask/goggles.

Skin protection Wear suitable overalls.

9. Physical and Chemical Properties

Appearance	Liquid
Odour	Earthy
pH	
Boiling point/range	
Flash point	100-105 ⁰ C
Flammability	
Explosive properties	
Oxidising properties	
Vapour pressure	
Relative density	1.13 (approx.)
Solubility	Insoluble
Partition coefficient	
Viscosity	145-175poise
Vapour density	
Evaporation rate	

10. Stability and Reactivity

Conditions to avoid	Under normal conditions unlikely to react in a hazardous manner.
Materials to avoid	Reacts with alkalines and strong acids.
Hazardous decomposition products	Decomposition products may be toxic

11. Toxicological Information

Acute toxicity (oral, inhalation, dermal)	Low oral toxicity.
Corrosivity/irritation (eye, skin, respiratory tract)	Irritant.
Sensitisation (skin, respiratory)	Exposure to vapour, mist or fumes may be irritating and cause irritation to eyes, nose and throat.
Mutagenicity	The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

Carcinogenicity The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

Reproductive toxicity (fertility, developmental) The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

12. Ecological Information

Ecotoxicity May cause adverse effects.

Mobility Sinks in water.
If product enters soil, it will be mobile and may contaminate groundwater.

Persistence and degradability Not readily biodegradable

Bioaccumulative potential Has the potential to bioaccumulate.

Other adverse effects

13. Disposal

Dispose of according to Local and National regulations.

14. Transport Information

UN Number	3082
Class	9
Proper shipping name	Environmentally Hazardous substance, liquid, NOS (Epoxy Resin)
Packaging group	III
Marine pollutant	No
Other applicable information	

15. Regulatory Information

Hazard Label Irritant and harmful to the environment.

16. Other Information

Risk phrases	R36/37 Irritating to eyes and respiratory system. R43 May cause sensitisation by skin contact. R48/21 Harmful: Danger of serious damage to health by prolonged exposure in contact with skin R50 Very toxic to aquatic organisms. R53 May cause long term adverse effects in the aquatic environment.
Safety phrases	S24/25 Avoid contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves. S45 In case of accident or if feeling unwell, seek medical advice immediately (show label where possible) S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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MATERIAL SAFETY DATA SHEET

1. Identification

Company Trade Name	Trustseal (Part B Epoxy) Moisture Tolerant
Application	Anti-skid/Traffic Calming

Manufacturer/Supplier Trustseal Limited,
Unit 10 Southfield Lane Ind. Est.,
Whitwell,
Worksop,
S80 4NW

Emergency and Tele (01909) 722662
Customer Enquiries Fax (01909) 720228

2. Composition

General The specific chemical identity and percent in
composition are considered trade secret
information for components

3. Hazard Identification

Safety Phrase Irritant S24/25,S26,S36/37/39,S45,S61

Risk Phrase R20/21/22,R24/25,R34,R36/37/38,R43,
R45,R48/21,R50/53

4. First Aid Measures

Inhalation Remove to fresh air. If symptoms persist
obtain medical assistance.

Eyes Flush thoroughly with copious amounts of
water until irritation subsides. If irritation persists
obtain medical assistance

Skin Wash with plenty of soap and water.

Ingestion Do not induce vomiting. If conscious give
plenty of water. Seek medical assistance.

5. Fire Fighting Measures

Suitable extinguishing media

Carbon Dioxide, foam, dry powder and water fog. DO NOT USE WATER JET.

Special exposure hazards

Special protective equipment for fire fighters

Fires should be dealt with by trained personnel wearing approved breathing apparatus with full piece and positive air supply.

6. Accidental Release Measures

Personal precautions

Wear gloves and goggles.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods for cleaning up

Absorb in inert powder and sweep into suitable containers and dispose of according to Local and National Regulations.

7. Handling and Storage

Handling

Personnel should wear PVC gloves and goggles

Storage

Store in tightly closed drums. Protect from frost.

8. Exposure Control/Personal Protection

Respiratory protection

Wear suitable face masks in confined spaces.

Hand protection

Wear gloves.

Eye protection

Wear face mask/goggles.

Skin protection

Wear suitable overalls.

9. Physical and Chemical Properties

Appearance	Liquid
Odour	Amine
pH	
Boiling point/range	
Flash point	91 ⁰ C
Flammability	
Explosive properties	
Oxidising properties	
Vapour pressure	
Relative density	1.03 (approx.)
Solubility	Insoluble
Partition coefficient	
Viscosity	160-190poise
Vapour density	
Evaporation rate	

10. Stability and Reactivity

Conditions to avoid	Under normal conditions unlikely to react in a hazardous manner.
Materials to avoid	Reacts with alkalines and strong acids. Copper and copper alloys.
Hazardous decomposition products	Decomposition products may be toxic

11. Toxicological Information

Acute toxicity (oral, inhalation, dermal)	Low oral toxicity.
Corrosivity/irritation (eye, skin, respiratory tract)	Irritant.
Sensitisation (skin, respiratory)	

Exposure to vapour, mist or fumes may be irritating and cause irritation to eyes, nose and throat.

Mutagenicity The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

Carcinogenicity The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

Reproductive toxicity (fertility, developmental)
The substance or preparation has not been assessed at all for this endpoint, so its hazardous property in this regard is not known

12. Ecological Information

Ecotoxicity May cause adverse effects.

Mobility Sinks in water.
If product enters soil, it will be mobile and may contaminate groundwater.

Persistence and degradability
Not readily biodegradable

Bioaccumulative potential
Has the potential to bioaccumulate.

Other adverse effects

13. Disposal

Dispose of according to Local and National regulations.

14. Transport Information

UN Number	2922
Class	8
Proper shipping name	Corrosive liquid, Toxic, NOS
Packaging group	III
Marine pollutant	No
Other applicable information	

15. Regulatory Information

Hazard Label

Toxic and corrosive.

16. Other Information

Risk phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R24/25 Toxic in contact with skin and if swallowed.
R34 Causes burns
R36/37/38 Irritating to eyes, respiratory system and skin.
R43 May cause sensitization by skin contact.
R45 May cause cancer
R48/21 Harmful danger of serious damage to health by prolonged exposure in contact with skin.
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety phrases

S24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes , rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing and gloves and eye face protection.
S 45 Incase of accident or if feeling unwell, seek medical advice immediately show label where possible.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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other reasons we assume no responsibility and expressly disclaim liability for loss, damage or expense arising from or in any way connected with the handling, storage, use or disposal of this material.