



10 Southfield Lane Industrial Estate, Whitwell, Worksop S80 4NW
Telephone: 01909 722662 Fax: 01909 720228
Web Site: <http://www.trustseal.co.uk>
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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 S 24/25 S36/37 S45 S61
Risk Phrase	R 36/37 R43 R 45 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 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 respiratory equipment 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.
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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.
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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 you feel 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	KeyGrip 924 (Part B 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 resin, amines, monocarboxylic acid and alkylated cycloalkenes.
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3. Hazard Identification

Safety Phrase	Irritant S 24/25 S36/37 S45 S61
Risk Phrase	R 21/22 R 24/25 R34 R 36/37 R39 R43 R45 R48/21 R53 R61

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 respiratory equipment 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.
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16. Other Information

Risk phrases	R21/22 Harmful in contact with skin and if swallowed. R24/25 Toxic in contact with skin and if swallowed. R34 Causes burns R36/37 Irritating to eyes, respiratory system R39 Danger of very serious irreversible effects. R43 May cause sensitisation by skin contact. R45 May cause cancer. R48/21 Harmful danger of serious damage to health by prolonged exposure in contact with skin
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R53 May cause long term adverse effects in the aquatic environment.

R61 May cause harm to unborn child.

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 you feel 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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