



SAFETY DATA SHEET
According to EC directive 1272/2008
WINKEL PIPE REPAIR BANDAGE

PAGE: 1 OF 4

1. IDENTIFICATION

Product WINKEL PIPE REPAIR BANDAGE
Identifier Company Name : WINKEL GMBH
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2. HAZARD IDENTIFICATION

GHS classification of the

substance/mixture Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS)
including Work, Health and Safety regulations
Not classified as Dangerous Goods according to the International Code for the Transport of Dangerous Goods by Road and Rail

Classification:
Sensitization - Skin: Category 1

Signal Word (s) WARNING
Hazard Statement (s) H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation

Precautionary Statement (s) P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Pictogram (s) Exclamation mark



Precautionary statement –

Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement –

Response INGESTION
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
SKIN
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Precautionary statement –

Disposal P501 Dispose of contents/container to an approved waste disposal plant.



SAFETY DATA SHEET

According to EC directive 1272/2008

WINKEL PIPE REPAIR BANDAGE

PAGE: 2 OF 4

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion	Classification
Polyurethane Resin	109159-24-2	30% - 50%	Eye Irrit. 2 - H319 Skin Sens. 1 - H317
Fiberglass Fabric	None	30-60 %	Not available

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Ingestion	Unlikely to occur due to the physical state of the product. However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop and/or persist seek medical attention.
Skin	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. If product adheres to skin remove as soon as possible with acetone or alcohol. Wash contaminated clothing before reuse or discard. If symptoms develop and/or persist seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.
Other Information	For advice in an emergency, contact a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use carbon dioxide, water spray, dry chemical or foam. For larger fires, use water spray, water fog or foam.

Hazards from Combustion Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, Products oxides of nitrogen and hydrogen cyanide.

Specific Hazards Combustible solid. This product will burn if exposed to fire.

Decomposition Temp. Not available.

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Remove all sources of ignition. Increase ventilation. Evacuate all unprotected personnel. Do not breathe dust or vapour. Wear respiratory protection and full protective clothing to minimise exposure. Collect material avoiding dust generation - then transfer material in to suitable vapour tight labelled containers for subsequent recycling or disposal. Dispose of waste according to applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Avoid inhalation of dust generated when removing the product from pipes, and skin or eye contact. Use disposable gloves. Product will adhere on contact with skin or clothing. If product adheres to skin remove as soon as possible with acetone or alcohol. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities. Avoid exposure. Do not handle until all safety precautions have been read and understood.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Avoid contact with moisture or water as product will harden. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations.



SAFETY DATA SHEET

According to EC directive 1272/2008

WINKEL PIPE REPAIR BANDAGE

PAGE: 3 OF 4

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material, however, in case of cutting the bandage, dust may be released. The TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Biological Limit Values No biological limits allocated.

Engineering Controls Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours, mists or dusts are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapour/particulate filter should be used.

Eye Protection Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances.

Hand Protection Wear disposable gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken.

Body Protection Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Knitted fabric coated with sticky resin	Evaporation Rate	Not available
Odour	A unique, weak odour	Odour Threshold	Not available
Decomposition	Not available	Colour	Not available
Temperature Freezing Point	Not available	Octanol/Water	Not available
Boiling Point	Not available	Partition Coefficient	
Solubility in Water	Reacts with water	Flash Point	>200°C
Specific Gravity	1.12 (25°C)	Flammability	Not flammable
pH Value	Not available	Auto-Ignition Temperature	Not available
Vapour Pressure	Not available	Flammable Limits - Lower	Not available
Vapour Density (Air=1)	Not available	Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Reactivity Curing reaction occurs with water.
Chemical resistance test results for the cured bandage for exposure for 1 month:
1. Exposure to ethyl alcohol, acetone, toluene, xylene, gasoline, mineral spirits, 20% sodium hydroxide, distilled water: No change in bandage.
2. Exposure to 30% hydrochloric acid and 50% caustic soda: No softening of bandage. Some colour change.
3. Exposure to 50% nitric acid: Blistering.

Chemical Stability Stable under normal conditions of storage and handling.

Conditions to Avoid Avoid moisture or water before use. This will cause unwanted hardening.

Incompatible Materials Uncured bandage: Acids and bases, amines, alcohols and strong oxidizing agents.

Hazardous Decomposition Products Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanates and hydrogen cyanide.

Hazardous Polymerization Will not occur.



SAFETY DATA SHEET

According to EC directive 1272/2008

WINKEL PIPE REPAIR BANDAGE

PAGE: 4 OF 4

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material.
Inhalation	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.
Ingestion	Ingestion unlikely due to form of product. Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Skin	Harmful in contact with skin. Product can be absorbed through skin with resultant harmful systemic effects. May cause an allergic skin reaction.
Eye	May be irritating to eyes. The symptoms may include redness, itching and tearing.
Reproductive Toxicity	Not considered to be toxic to reproduction.
Carcinogenicity	Not considered to be a carcinogenic hazard.
Skin Sensitisation	May cause an allergic skin reaction.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data are available for this material.
Persistence and Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environmental Protection	Not available

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
Other Information	Fibreglass waste cannot be destroyed by incineration and can damage incinerators by the formation of a vitrified mass. Fibreglass waste can either be considered an inert waste or as common industrial waste and can be buried in approved landfills.

14. TRANSPORT INFORMATION

Transport Information	Not classified as Dangerous Goods Regulations for transport by air. Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
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15. REGULATORY INFORMATION

Regulatory Information	Classified as hazardous Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	Not Scheduled

16. OTHER INFORMATION

Literature References	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons. International Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work American Conference of Industrial Hygienists (ACGIH) Globally Harmonised System of classification and labelling of chemicals.
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...End Of SDS...