

MATERIAL SAFETY DATA SHEET

MF 40 Pipe Repair Kit

Date of issue: 01.02.2012 First issue

1. Substance/Product identification:

Trade mark: Mareflex MF 40 Pipe Repair Kit
Product type: epoxy adhesive
Feature: high bond strength
Use of the Substance: adhesive, multi-purpose bonding and repairing
Contact unit: Mareflex GmbH
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2. Substance/Product identification:

Emergency overview: Green and white putty with a slight odor. May cause irritation to the eye and skin. Potential skin sensitizer. May be harmful if swallowed.

Potential Health Effects

Routes of exposure: eye, skin, inhalation, ingestion.

Skin: irritation and possible sensitization

Eye: irritation, including redness burning, tearing and blurred vision

Inhalation: may be irritating on inhalation

Ingestion: may cause irritation to the mouth and throat, nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

The ingredient list of the finished product(s) is as follows:

Chemical name	CAS#	EC# (EINECS#)
<i>Epoxy resin</i>	25068-38-6	Not found
<i>GPM-888</i>	Proprietary	Not found
<i>Silicon dioxide (SiO₂)</i>	7631-86-9	231-545-4
<i>Calcium Carbonate (CaCO₃)</i>	471-34-1	207-439-9

Note: The proportion in composition is a trade secret

4. First Aid Measures

Inhalation: Move to fresh air. Work in a well ventilated place.

Eye contact: Flush eye with plenty of cold water for at least 15 minutes. Do not rub eyes. Get medical attention immediately.

Skin contact: Wash with soap & water, if skin irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Obtain medical attention. If vomiting should occur spontaneously, keep airway clear: keep head above hips to prevent aspiration. For advice, contact a Poisons Information Centre or a doctor (at once).
Advice to doctor: Treat symptomatically and supportively.

5. Fire-Fighting Measures

Flammable properties: Incombustible.
Extinguishing Media: Small fires: Use dry chemical, CO₂, water or foam extinguisher.
Large fires: Evacuate area and call Fire Department immediately.
Unusual Fire and Explosion Hazards: None known.
Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

6. Accidental Release Measures

Spill or Leak Procedures: Pick up released product with appropriate implements and return to original container if reusable. If not reusable, place in appropriate containers for disposal. Appropriate personal protective equipment cited in Section 8 should be worn during all clean-up operations.
Regulatory Requirements: Follow applicable federal, state or local regulations.

7. Handling and Storage

Handling

Avoid contact with eyes. Avoid contact with skin and clothing.
Avoid breathing vapors or fumes. Take appropriate precautions against inhalation of dust particles. Use only with adequate ventilation. Use protective glasses and protective gloves to avoid personal contact. Wash thoroughly after handling. Keep container closed when not in use. Keep out of reach of children.

Storage

Store in original, labeled container at room temperature.
Do not store near fire or overheated place.
Do not store near food or feed.

8. Exposure Controls/Personal Protection

Engineering Controls: Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

Personal Protective Equipment

Eye: Use safety glasses with sideshields. Contact with eyes may cause irritation or burns.
Skin: Wear polyethylene gloves for prolonged use. Launder soiled clothing before re-use.
Respiratory: Not needed in normal use with proper ventilation.
Other: Eye wash should be available.
Hygiene Measures: Use only with adequate ventilation. Wash thoroughly after handling.

9. Physical and Chemical Properties

General Information	
<i>Odor:</i>	Slight odor
<i>Colour:</i>	Green and white
<i>Appearance:</i>	Putty
<i>Viscosity:</i>	Highly viscous
<i>PH-Value:</i>	Not available
<i>Boiling point/Boiling range</i>	Not available
<i>Flash Point:</i>	Not available
<i>Self-Igniting:</i>	Not available
<i>Danger of Explosion:</i>	Not happen under normal use
<i>Relative Density (H₂O=1)</i>	1,7 ± 0,1
<i>Relative Vapour Density (AIR=1)</i>	Not available
<i>Evaporation Rate</i>	Not available
<i>Solubility in Water</i>	Insoluble

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures

Conditions to avoid: Open flame or excessive heat

Incompatibility (materials to avoid): Strong oxidizing agents, strong acids.

Hazardous Decomposition Products: Oxides of carbon, nitrogen, sulfur and unknown organic compounds.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Toxicity Data:	<i>Epoxy resin</i>	Oral LD50 (rat): 11,4 g/kg
		Dermal LD50 (rabbit): >20ml/kg
	<i>GPM-888</i>	Skin irritation (rabbit): 4,8/8
	<i>Silicon dioxide (SiO₂)</i>	IPN-RAT LD50: 50mg/kg IVN-RAT LD50: 15mg/kg
	<i>Calcium carbonate (CaCO₃)</i>	Dust may cause irritation. Typical TLV/TWA: 10 mg/m ³

Carcinogenicity: None known

Mutagenicity: None known

Reproductive toxicity: None known

Chronic toxicity: May cause sensitization by skin contact.

Sensitization: The epoxy resin has been shown to cause sensitization in laboratory animals.

Medical conditions aggravated by exposure: Persons with pre-existing skin or lung disorders may be at increased risk from exposure to this product.

12. Ecological Information

Mobility: Insoluble in water.
Bioaccumulation: None known.
Persistence and degradability: None known.

13. Disposal Considerations

Waste disposal: Disposal should be in accordance with Federal, State/Provincial or Local regulations.

14. Transport Information

Hazard Class: Non hazardous
Ocean (IMDG): Not regulated
Air (IATA): Not regulated

15. Regulatory Information

European/International regulations
European Labeling in accordance with EC Directives

Risk phrases

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.

Safety phrases

S2 Keep out of the reach of children
S3/7/8 Keep container tightly closed in a cool, well-ventilated place.
S24/25 Avoid contact with skin and eyes.

Other: Refer to all applicable national, international and local regulations or provisions. For detailed regulations, contact the appropriate agency in your country.

16. Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Emergency telephone number: Contact your local medical service

Department issuing MSDS: Technical Department

Remarks:

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