

Material Safety Data Sheet

Date of Issue: 16.12.03
Supersedes: All Previous

1. Identification of Preparation and Company

Product GRANVILLE EXHAUST BANDAGE

Company Granville Oil & Chemicals Ltd
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2. Composition & Information on Ingredients

A glass fibre woven from continuous filament fibres with a nominal diameter of at least 5 microns, impregnated with a mixture of Epoxy resins and hardener.

3. Hazards Identification

Harmful if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.
Inhalation of volatile matter may cause irritation to nose, throat and respiratory tract.
Hazardous components – Epoxy Resin Bisphenol A (Epichlorhydrin) (Cas No. 025068-38-6)
R36/38 R43.

4. First Aid Measures

Skin contact: Immediately wash skin with soap and water. Remove contaminated clothing. If signs/symptoms occur, call a medical doctor. Wash contaminated clothing before reuse.

Eye contact: Immediately flush eyes with large amounts of water, seek immediate medical attention.

Ingestion: Do not induce vomiting. Drink two glasses of water. Seek immediate medical attention.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

The information contained in this leaflet is provided to enable the user to assess the product and should not be taken as a specification. All information provided is given good faith we can however not assume liability. It is up to the user to ensure that the information and the product is suitable for use intended.

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Carbon Dioxide. Dry Chemical. Foam.

Exposure Hazards: Fumes from fire.

Combustion Products: Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures: Wear full protective clothing, including helmet. Self contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings) bands around arms, waist and legs, face mask and protective covering for exposed areas of the head.

6. Accidental Release Measures

Personal Precautions: Observe precautions from other sections.

Methods for cleaning:

Uncured material: Eliminate sources of ignition. Collect material using appropriate gloves. Place in a suitable container for disposal.

Cured material: As uncured material. Respiratory protection may be required if dust levels exceed 6 mg/m³.

7. Handling and Storage

Precautions for Safe Storage: Store at temperature below - 18°C.
(Refrigerated storage is not for safety reasons).
Keep away from food, drink and animal feeding stuffs.

Fire Prevention: Store away from heat sources.

Precautions for Safe Handling: See information in Section 8.

8 Exposure Controls/Personal Protection

Occupational Exposure Standards:

1-Chloro-2,3-epoxypropane(Epichlorhydrin):
UK EH40: MEL 0.5 ppm 8 hr TWA
MEL 1.5 ppm 15 min TWA

Eye Protection: Avoid eye contact. Wear vented goggles or safety glasses with side shields if exposure is likely.

Hand Protection: Wear appropriate gloves when handling this material. A pair of gloves made from the following material is recommended:
Polyethylene/ethylene vinyl alcohol or nitrile rubber.

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Skin Protection:	Avoid skin contact.
Respiratory Protection:	Avoid prolonged breathing of vapours. Select respirator based on airborne concentration of contaminants and in accordance with national regulations.
Ingestion:	Do not eat, drink or smoke when using this product. Do not ingest. Keep out of reach of children.
Recommended Ventilation: Uncured material;	Fumes from curing ovens, autoclaves and vacuum pumps must be exhausted away from site of work. Laminating presses must have local exhaust.
Cured material:	Provide appropriate local exhaust for cutting, grinding or sanding cured material. If exhaust ventilation is not adequate, use appropriate respiratory protection.

9. Physical and Chemical Properties

Appearance and Odour:	Black coloured woven fabric. Light solvent odour at ambient temperatures.
pH:	Not determined.
Boiling Point/Boiling Range:	Not determined.
Melting Point/Melting Range:	Not determined.
Flash Point:	Not determined.
Autoflammability:	Not determined
Vapour Pressure:	Not determined
Specific Gravity:	Not determined.
Vapour Density:	Not determined.
Volatile Organic Compounds:	Not determined.
Evaporation Rate:	Not determined.
Viscosity:	Not determined.

10. Stability and Reactivity

	Stable at room temperature.
Conditions to Avoid:	Heat. Avoid static electricity discharge.
Materials to Avoid:	Strong oxidising agents. Strong acids.
Hazardous Decomposition:	Stable, Hazardous polymerisation will occur at ambient temperatures.

11 Toxicological Information

Effects from Eye Contact:	Severe eye irritation: Signs/symptoms can include redness, swelling, pain, tearing, cloudy appearance of the cornea, impaired vision and possible permanent impairment.
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Effects from Skin Contact: Allergic Skin Reaction. Signs/symptoms can include redness, swelling, blistering and itching. Mild skin irritation: signs/symptoms can include redness, swelling and itching.

Effects from Inhalation: Allergic Respiratory Reaction. Signs/symptoms can include difficulty breathing, wheezing, tightness of chest, and respiratory failure. Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing, and sneezing. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

Effects from Ingestion: Ingestion may cause: Irritation of Gastrointestinal Tissues; signs/symptoms can include pain, vomiting abdominal tenderness, nausea, blood in vomit, and blood in faeces.

12 Ecological Information At the present time the material is believed to have minimal environmental impact.

13 Disposal Considerations

Special Instruction: Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerised) material in a landfill/waste disposal site. Since regulations vary, consult applicable regulations or authorities before disposal.

14. Transport Information

UN Number: **Class**

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION

Substance Identification Number: TBD

Class: TBD

Packing Group: TBD

Proper Shipping Name: TBD

ADR/RID CLASSIFICATION TBD

Class TBD

Packing Group: TBD

Proper Shipping Name: TBD

15 Regulatory Information

Precautionary Label Information

Symbol(s): St Andrew's Cross with orange background (Harmful).

Risk Phrases: R22-Harmful if swallowed.
R36/38-Irritating to eyes and skin.
R43-May cause sensitisation by skin contact.

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Safety Phrases: S24/25-Avoid contact with the skin and eyes. Avoid inhalation of dust generated during use.
S37/39-Wear suitable gloves and eye and face protection.
S51-Use only in well ventilated areas.
S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28-After contact with skin, wash with soap and water.
Launder contaminated clothing before re-use.

16 Other Information:

Regulatory Information:

The following UK Regulations as amended may affect the product as supplied:
The Chemicals (Hazard Information and Packaging) Regulations 1996.
The Dangerous substances (Conveyance by road in Road Tankers Tanks Containers/Regulations 1992).
The Road Traffic (Carriage of Dangerous Substances in Packages etc.) Regulations 1992.
The Control of Substances Hazardous to Health Regulations 1994.
The Control of Pollution (Special Waste) Regulations 1980.
The Environmental Protection Act, 1990
The Health and Safety at work Act 1974.

Intended Use of Product:

This is a glass reinforced thermosetting prepreg designed for the manufacture of low pressure mouldings (or sealant e.g. Car exhaust bandage).

The information on this Data Sheet is based on our experiences and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law).

The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials.

For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.