

MATERIAL SAFETY DATA SHEET

1. Identification of substance/preparation and of manufacturer/supplier

Permagrip PG107

Supplied by: Glenseal
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2. Composition

The preparation is a solution of adhesive in a fast drying solvent together with a gas propellant in a pressurised container of greater than 1 litre capacity. It is applied as a coherent stream.

Substance	CAS Number	EEC Number	Content	Hazard Label
Dichloromethane	000075-09-2	200-838-9	>40% <50%	Xn
Isobutane*	000079-28-5	200-857-2	>30% <40%	F+
Propane	000074-98-6	200-827-9		(in combination) F+

* This product has been certified as containing < 0.1% 1, 3 butadiene

3. Hazards identification

Vapours generated in use are harmful and narcotic.
The propellant gases are extremely flammable.
Contact with the liquid material may cause skin irritation.
The material is supplied in pressurised containers.

4. First Aid measures

General: Move victim from source of exposure
Skin Contact: Wash off with soap and water. If there is irritation seek medical advice
Eye Contact: Wash eyes immediately with normal saline (if available) or water for at least 10 minutes. If there is any continuing irritation or effects on vision seek medical advice.
Inhalation: Allow victim to recover in fresh air, away from site of exposure. If not breathing apply artificial respiration and seek urgent medical advice.
Ingestion: Do not induce vomiting. Give water to drink. Seek medical advice.

5. Fire fighting measures

Risks: Highly flammable.
Pressurised containers may explode if heated.
Special Precautions: Keep containers cool (below 50°C)
Quench: Fire fighters should use SCBA in non-trivial fires. Quench fire with dry powder or CO₂. If not available use water fog.
Products of Combustion: Combustion may generate oxides of carbon.

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6. **Accidental release measures**

Do not allow spillage to enter natural water courses.
Extinguish any local sources of ignition.
Wear impervious gloves and eye protection (as section 8). If spillage is in confined space check that atmosphere is breathable - consider use of self contained breathing apparatus.
Absorb spilled material onto inert solids such as sand, earth or clay based absorbent and allow the solvent to evaporate. Collect resultant solid wastes in sealable drums and dispose via a licensed waste contractor.

7. **Storage and handling**

Store in cool dry conditions in original containers away from sources of ignition.
Do not puncture or incinerate.
Keep away from foodstuffs.

8. **Exposure controls and personal protection**

Use under conditions of adequate ventilation. See also exposure limits (Section 15). Forced ventilation (LEV) is recommended.
Wear impervious (nitrile or neoprene) gloves and eye protection at all times.
If the usage involves significant risk of skin contact, wear protective clothing.

9. **Physical and chemical properties**

Chemical formula:	Mixed solution
Form and odour:	Amber or Red liquid with distinctive odour.
Relative density:	1.17 @ 20°C
Solubility:	Immiscible with water
pH:	n/a
Flash Point:	< -6°C
Boiling Point:	-40°C
Vapour Pressure:	70 psig @ 21°C (approx 480 kilopascals)

10. **Stability and Reactivity**

Believed to be stable, no hazardous reactions have been reported.
Hazardous polymerisation does not occur.
Avoid contact with strong oxidising agents, strong acids and strong alkalis.
This material contains chlorinated hydrocarbon. Some chemicals in this class react violently with aluminium at elevated temperatures.
No stabilisers are considered necessary or have been added.

11. **Toxicological information**

No detailed toxicological data is available for the preparation.

Eye contact: May cause irritation which may persist

Ingestion: Irritant

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11. Toxicological information continued

Inhalation: May cause nausea, headache or narcosis leading to loss consciousness.

Long term effects: There is no evidence of carcinogenicity from this preparation.

Dichloromethane has been found to be carcinogenic in some animal Studies but is not thought to constitute a significant risk in humans. There is no evidence of mutagenic or teratogenic activity from the preparation.

12. Ecological information

This preparation has not been the subject of a detailed environmental study. None of the volatile components are considered to be ozone depleting substances.

It is rapidly converted to immobile and insoluble solid by solvent evaporation. The solvents degrade naturally in the environment.

The liquid material may cause harm to the aquatic environment.

None of the ingredients are expected to bioaccumulate.

13. Disposal considerations

All disposal must be subject to local regulations and consents.

Used product may be disposed as a normal industrial waste, substantially inert.

Unused product, in containers, should be disposed via a properly licensed Waste Disposal contractor. Under Schedule 2, Part III of the Special Waste regulations 1996 such product would be classified as a Special Waste 08 04 09, (waste adhesives and sealants containing organic solvents of other dangerous substances). Other hazardous waste classifications are also possible.

14. Transport information

The assignment of a proper shipping name is in part a function of the package size and of the means of transport. For example the proper shipping name for a bulk container can differ significantly from the proper shipping name for the same product shipped in a bulk container. This can also be true for products shipped by different modes of transport (i.e. ground, sea, air). The designation(s) shown below, the so-called UN number, is indicative and provides some guidance as to the likely proper shipping name.

Further professional advice should be sought from specialist shippers before repacking or reshipping this product.

Land transport ADR/RID

Class	2	Classification code	2F
Packaging group	-		
Hazard ID No.	23		
Label	2.1		
Special Provisions	274		
UN Number	3161		
Technical name	Liquefied gas, flammable, n.o.s. Petroleum Gas Mixture		

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15. Regulatory information

Labelling requirements:	Extremely Flammable	F+
	Harmful	Xn
Risk phrases:	R12	Extremely flammable
	R40	Limited evidence of carcinogenic effect.
Safety phrases:	S9	Keep container in well ventilated place.
	S16	Keep away from sources of ignition. No smoking.
	S23	Do not breathe the vapours generated when spraying.
	S24/25	Avoid contact with skin or eyes.
	S36/37	Wear protective clothing, gloves, eye protection
	S51	Use only in well ventilated areas.

Workplace Exposure Limits

Substance	Reference period	Limit (ppm)	Limit (mgM-ü)
Dichloromethane	15 minutes TWA	300	1060
Dichloromethane	8 hours TWA	100	350

These limits are under active review by the HSE. Personnel regularly exposed to significant quantities of dichloromethane in their working environment should be monitored for the extent of their exposure in accordance with EH40/2005, Table 2. This is a non-statutory but recommended check on the effectiveness of the control procedures.

Propane is regarded as an asphyxiant.

16. Other information

The principle source of the information in this document is the Safety Data Sheet issued under North American legislation by the manufacturer.

Reference has also been made to the following sources:

Workplace Exposure Limits 2005 (EH40/2005)	HSE Books
The chemicals (Hazard Information and Packaging for Supply) Regulations (SI 1689, 2002) (as amended)	HMSO
Approved Supply List (8th.Edition, 2005)	HSE Books
Approved Code of Practice, The compilation of Safety Data Sheets (3rd.Edition, 2002)	HSE Books
Approved classification and labelling guide, (5th.Edition, 2002)	HSE Books
The Carriage of Dangerous Goods by Road and Use of Transportable Pressure Equipment Regulations (SI 568, 2004)	Stationery Office
Dangerous Goods emergency Action Code List 2005	Stationery office
European Agreement for the Carriage of Dangerous Goods (ADR) 2005	UNECE
The Hazardous Waste (England & Wales) Regulations 2005(SI 894, 2005)	Stationery office
The List of Wastes (England) Regulations 2005 (SI 895 2005)	Stationery office
Dictionary of Substances and their Effects (October 1999)	RSC/Silver Platter
Handbook of Chemistry and Physics (73rd.edition)	CRC Press

LEGAL DISCLAIMER

The above information is based on our present knowledge of the product and is given in good faith. The information has been verified so far as is possible but no obligation is accepted or is implied for its accuracy or completeness.

It is presented in accordance with the requirements of 91/155/EEC as enacted into British practice by The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (SI 1689 2002). Unless otherwise stated statutory regulations refer to those for the United Kingdom, thus exposure limits, for example, are those for the UK.

It should be understood that the uses to which this material might be put and the conditions under which it used are entirely beyond control of Glenseal. Consequently the assessment of the risks of using this material lie with the user: this information is NOT an assessment of those risks.

Sheet amended March 2009.