



SAFETY DATA SHEET

1. Identification

Product Identifier	HVMC Putty Component B
Synonyms	High Velocity Masking Compound – Component B
Relevant identified use of the product	
Use of the Product	A unique two-part silicone putty used to mask holes, keyways, channels, depressions and produce reusable plugs in grit blast, thermal spray and HVOF (High Velocity Oxy Fuel) operations.
Restriction on Use	Not applicable.
Details of the supplier of the safety data sheet	
Company	Green Belting Industries Limited
Address	Mississauga ON L5T 2J3 Canada
Telephone	+1 905 564 6712 (08:30 to 17:00 Eastern Standard Time)
E-mail address	sds-support@greenbelting.com
Emergency Telephone Number	+1 905 564 6712 Available between the hours 08:30 to 17:00 (EST)

2. Hazard Identification

Classification of the Product		
Physical hazards	Not applicable	Not applicable
Health hazards	Not applicable	Not applicable
Environmental hazards	Not applicable	Not applicable
Label Elements	Not applicable	
Signal Word	Not applicable	
Hazard Statement(s)	Not applicable	
Precautionary Statement (s)	Not applicable	
Other Hazards	Not a classified substance or mixture according to Regulation (EC) No.1272/2008 Not classified as dangerous according to Directive 67/548/EEC. Not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard The catalysed putty is not normally considered hazardous, and there are no known physical hazards associated with it. Under certain conditions Component B can release hydrogen.	

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3. Composition/Information on Ingredients

Chemical Nature of the Mixture Polydimethylsiloxane with functional groups and auxiliary

Mixtures

Ingredient Name	CAS Number	EC Number	% by Weight
Polydimethyl hydrogenmethyl siloxane	68037-59-2	614-223-1	1.0-5.0

This material does not contain any OSHA or WHMIS reportable hazardous ingredients. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected. Substances in the "HAPS" and "California Proposition 65 Carcinogens/Reproductive Toxins" that are not listed in Section 2 are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

None of the product components are intentionally released during their use when used as intended and in accordance with recommended specifications and parameters.

For full text of the R-phrases mentioned in this Section, see Section 16.

For full text of the S-phrases mentioned in this Section, see Section 16.

For full text of the H-statements mentioned in this Section, see Section 16.

4. First Aid Measures

General Advice

Never give anything by mouth to an unconscious person. Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical attention.

Inhalation

Material cannot be inhaled under normal conditions. No special measures required.

Skin Contact

Wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. If skin irritation occurs get medical attention.

Eye Contact

If contact with eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention.

Ingestion

After swallowing, no special treatment is required.

Most important symptoms and effects, both acute and delayed

Eye contact: May cause slight eye irritation.

Skin contact: No acute toxic effects are expected.

Inhalation: No acute toxic respiratory tract effects are expected. Inhalation is not expected due to low vapor pressure or high viscosity.

Ingestion: Ingestion is not expected in industrial use.

Additional Information on acute health effects: The health hazards



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evaluation is based on test results and/or known properties of ingredients. Due to the physical nature of this material (paste), exposure to dusts/particulates is not expected.

No known or expected chronic health effects. This material contains crystalline silica. However, due to the physical nature of this material inhalation of silica dust is not possible.

None known medical conditions which may be aggravated by exposure.

No known internal organ effects.

This material does not contain any reportable carcinogenic ingredients. Exposure to carcinogens cannot occur under normal conditions of use during foreseeable emergencies. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media

Carbon dioxide (CO₂), Alcohol-Resistant Foam, Dry Sand.

Unsuitable extinguishing media

Water, dry chemical, halons.

Specific hazards during fire fighting

This material does not present any unusual fire or explosion hazards. Under certain conditions there is a possibility that Component B may form explosive mixtures with air, for example in un-cleaned containers mixing with moisture. Good house-keeping, eliminating possible electrostatic discharges and keeping away from any ignition sources will eliminate the occurrence of fire or explosion hazards.

For catalysed cured HVMC putty hazardous decomposition products may include carbon monoxide and carbon dioxide hazardous decomposition products may include carbon monoxide and carbon dioxide.

For Component B hazardous decomposition products may include carbon monoxide, carbon dioxide and small amounts of formaldehyde.

Exposure to decomposition products can be a hazard to health.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and full protective suit. Wear neoprene gloves during cleaning up work after a fire. Cool endangered containers with water.

Sources of ignition must be eliminated during the clean-up and recovery process for Component B, as there is a possibility of potentially explosive mixtures becoming trapped under foam blankets.

Further information

This material does not present any unusual fire or explosion hazards.

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6. Accidental Release Measures

Personal precautions

For personal protection see section 8.
Use protective equipment to prevent the contamination of skin, eyes, and clothing. If material is released indicate risk of slipping.

Environmental Precautions

Prevent material from entering sewers or surface waters.

Methods and materials for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's Earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Reference to other sections

For disposal instructions see section 13.

7. Handling and Storage

Precautions on safe handling

For component B, open and handle the container with care. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, use inert process equipment and blanket vessels, tanks and containers to reduce the available oxygen level.

Advice on protection against fire and explosion

For component B, in partly emptied containers, formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames and sparks. Take precautionary measures against electrostatic charging.

Requirements for storage areas and containers

No special precautions necessary, but recommend storing in a dry cool place and protecting from contamination.

Advice on common storage

Do not store with: basic substances (e.g. alkalis, ammonia, amines), oxidizing agents, strong acids.

Storage temperature

Store in cool, dry conditions and avoid excessive temperatures.

Other data

Do not store in direct sunlight or in conditions of high humidity.

8. Exposure controls/personal protection

Control Parameters

Associate substances with specific control parameters (limit values): None known
Given the special precautions mentioned in section 7, these traces present no toxic risk to the processing personnel. Gloves should be worn when handling the material. Safety glasses are normally recommended for all industrial workplaces when handling the material.

Engineering measures

Use with adequate ventilation.

Eye protection

Throughout basic product handling processes goggles or face shields should be worn.

Hand protection

Recommendation: Butyl rubber protective gloves, neoprene gloves, PVC gloves.

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Skin and body protection

The wearing of a loose fitting long sleeved shirt that covers to the base of the neck and long trousers is recommended to minimize exposure.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Wash hands immediately after handling the product. Contaminated clothes should always be washed separately.

Respiratory protection

Not required for normal use of the product. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. Physical and Chemical Properties

Appearance:	Blue	Upper/lower flammability or explosive limits:	Not applicable
Physical state:	Paste	Flammability (solid, gas):	Not applicable
Odour:	Odourless	Vapour pressure:	Not applicable
Odour threshold:	Not applicable	Vapour density:	Not applicable
pH:	Not applicable	Relative density:	1.30g/m ³
Melting point/freezing point:	Not applicable	Solubility(ies):	Virtually insoluble
Flash point:	Not applicable	Auto-ignition temp:	Not applicable
Initial boiling point and boiling range:	Not applicable	Partition coefficient n-octanol/water:	Not applicable
Evaporation rate:	Not applicable	Decomposition temp:	Not applicable
Viscosity:	Not applicable		

10. Stability and Reactivity

Reactivity

Stable at normal ambient temperature and pressure.

Chemical stability

Product is chemically stable.

Possible hazardous reactions

Unmixed component can reacts with acids, bases, basic substances (e.g. alkalis, ammonia, amines, moisture, oxidizing agents, catalyst). Reaction can cause the formation of hydrogen. Hazardous polymerisation cannot occur. Catalysed cured putty – none known (hazardous polymerisation cannot occur).

Conditions to avoid

Keep the unmixed component away from moisture, heat, open flames and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can cause the formation of hydrogen - see information in section 7.

Incompatible materials

Unmixed component can reacts with acids, bases, basic substances (e.g. alkalis, ammonia, amines, moisture, oxidizing agents, catalyst. Reaction can cause the formation of hydrogen.

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Hazardous decomposition products Possible formation of hydrogen and small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation. Catalyzed cured putty – Decomposition products could include carbon monoxide, carbon dioxide and silicon dioxide.

11. Toxicological Information

Acute oral toxicity No data available for product itself.

Primary Routes of Potential Exposure

Skin irritation No data available for product itself.

Eye irritation No data available for product itself.

Inhalation No data available for product itself.

Sensitization No data available for product itself.

Repeated dose toxicity Not applicable.

Mutagenicity assessment Not applicable.

Carcinogenicity assessment No data available for the product itself.

Toxicity to reproduction assessment No data available for the product itself.

STOT-Single exposure Not applicable.

STOT-Repeated exposure Not applicable.

Aspiration hazard Not applicable.

12. Ecological Information

Toxicity For the product as a whole, no test data is available. According to current knowledge adverse effects on water purification plants are not expected.

Persistence and degradability Biologically not degradable. Insoluble in water. Separation by sedimentation.

Bio-accumulative potential No adverse effects expected.

Mobility in soil No adverse effects expected.

Results of PBT and vPvB assessment Not applicable.

Additional ecological information No data is available on the product itself.



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13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Where possible, recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
Local disposal regulations	Where possible, recycling is preferred to disposal or incineration. Dispose of in accordance with local regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Transport ADR/RID/ADN

UN Number	Not Applicable.
UN Proper Shipping Name	Not Applicable.
Transport hazard class(es)	Not Applicable.
Packing group	Not Applicable.

Transport IMDG

UN Number	Not Applicable.
UN Proper Shipping Name	Not Applicable.
Transport hazard class(es)	Not Applicable.
Marine pollutant	Not Applicable.
Packing group	Not Applicable.
EmS	Not Applicable.

Transport ICAO-TI / IATA

UN Number	Not Applicable.
UN Proper Shipping Name	Not Applicable.
Transport hazard class(es)	Not Applicable.

Environmental hazards Not Applicable.

Other information Not Applicable.

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Special precautions for user Not classified as dangerous in the meaning of transport.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Not Applicable.

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

USA	
TSCA Status	This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.
TSCA 12(b)	This material does not contain any TSCA 12(b) regulated chemicals.
SARA Title III	
Sec. 303/304	None.
Sec. 311/312	Not applicable.
Sec 313	Not applicable.
CERCLA RQ	Not applicable.
HAPS (Hazardous Air Pollutants)	CAS#108-88-3 Toluene
California Prop 65	CAS#13463-67-7 Titanium dioxide CAS#14808-60-7 Quartz CAS#108-88-3 Toluene
State Right-to-Know Lists	CAS#112945-52-5 Silica, amorphous, fumed CAS#14808-60-7 Quartz CAS#8042-47-5 Mineral Oil
CANADA	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
WHMIS Classification (for workplace exposures)	Not controlled.
New Substance Notification Regulations	All ingredients in this product are listed, as required, on Canada's Domestic Substances List (DSL).
Canadian Ingredient Disclosure List	CAS#112945-52-5 Silica, amorphous, fumed CAS#14808-60-7 Quartz
EC Classification for the EC Substance/Preparation	
Symbol	GHS07: Harmful
German Water Hazard Class	German Water Hazard Class WGK nwg. Non-water polluting substance.
Other regulations	Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.
Chemical Safety Assessment	No data available.

16. Other Information

Text of R-phrases referred to in Section 3 Not applicable

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Text of S-phrases referred to in Section 3 Not applicable

Text of H-Statements referred to in Section 3 Not applicable

Preparation Information

Prepared by Green Belting Industries Limited
www.greenbelting.com

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Revision Summary Updated contact information, removed obsolete product and styling. GHS requirements applied.

Abbreviations and acronyms

Section	Abbreviation	Description
2	CFR	Code of Federal Regulations
3	CAS	Chemical Abstracts Services
3	OSHA	Occupational Safety and Health Administration USA
3	ACGIH	American Conference of Governmental Industrial Hygienists
3	PEL	Permissible Exposure Limit
3	TLV	Threshold Limit Value
3	SVHC	Substances of Very High Concern
8	TWA	Time Weighted Average
8	STEL	Short-Term Exposure Limit
8	IDLH	Immediately Dangerous to Life or Health (NIOSH)
8	NIOSH	National Institute for Occupational Safety and Health
8	ppm	Parts per Million
8	ppb	Parts per Billion
11	LD ₅₀	"Lethal Dose, 50%" or median lethal dose (amount of substance required by body weight to kill 50% of the test population)
11	STOT	Specific Target Organ Toxicity
12	PBT	Persistent, Bio-accumulative and Toxic
12	vPvB	Very Persistent and Very Bio-accumulative
14	DOT	Department of Transport
14	ADR	Agreement on Dangerous Goods
14	IATA	International Air Transport Association
14	ACAO	International Civil Aviation Organisation
14	IMO	International Maritime Organization
14	IMDG	International Maritime Dangerous Goods
14	TSCA	Toxic Substances Control Act
15	SARA	Superfund Amendments and Reauthorization Act
15	CERCLA RQ	Comprehensive Environmental Response Compensation and Liability Act
15	WGK	German Water Hazard Class
15	WHMIS	Workplace Hazardous Materials Information System

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.