

SAFETY DATA SHEET
HIGH VELOCITY MASKING COMPOUND - COMPONENT B

SECTION 1 IDENTIFICATION**1.1 Product Identifier**

Product name: HVMC Putty Component B (of 2 component system)

Synonyms: High Velocity Masking Compound – Component B

1.2 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.

1.3 Details of the supplier of the safety data sheet

Company: Green Belting Industries Limited
 381 Ambassador Drive
 Mississauga
 ON L5T 2J3
 Canada

Telephone: +1 905 564 6712 (09:00 to 17:00 Eastern Standard Time)

Telefax: +1 905 564 6709

E-mail address: sds-support@greenbelting.com

European Union Contact: Biscor Limited
 Unit 1 Broadfield Business Park
 Pilsworth Road
 Heywood
 OL10 2TA
 United Kingdom

Telephone: +44 (0)1706 396690 (09:00 to 17:00 UTC/GMT)

Telefax: +44 (0)1706 396691

1.4 Emergency Telephone Number

North American Emergency Telephone Number: +1 905 564 6712 Available between the hours 09:00 to 17:00 (EST)

European Union Emergency Telephone Number: +44 (0)1706 396690 Available between the hours 09:00 to 17:00 (UTC/GMT)

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SECTION 2 HAZARD IDENTIFICATION

2.1 Classification of the Product

European Communities (EC):	Not a classified substance or mixture according to Regulation (EC) No. 1272/2008.			
USA:	Not classified as dangerous according to Directive 67/548/EEC.			
Canada:	Not a hazardous material as defined by 29 CFR1910.1200, OSHA Hazard Communication Standard.			
HMIS® Rating (product as packaged)	Health: 1	Fire: 1	Reactivity: 2	PPE: B
	Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present)			

2.2. Label elements

Symbol:	None
Signal Word:	N/A
Hazard Statement(s):	N/A
Precautionary Statement:	P261 – Avoid breathing any fume or dust that may be generated
	P262 – Do not get in eyes, on skin, or on clothing
	P264 – Wash hands thoroughly after handling.

2.3. Other hazards

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.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Nature of the Mixture: Polydimethylsiloxane with functional groups and auxiliary

3.1 Substances

Not Applicable

3.2 Mixtures – Information on Ingredients

Type	CAS No.	Substance	Content (wt %)		Note
			Lower	Upper	
INHA	68037-59-2	Polydimethyl hydrogenmethyl siloxane	>=1.0	<=5.0	NH

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.
 The above product(s) are defined under the European Union’s REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) regulation as articles, and as such are exempt from the material safety data sheet provisions of 29 CFR 1910.1200(G) .

None of the product components are intentionally released during their use when used as intended and in

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accordance with recommended specifications and parameters.

This product is REACH compliant and does not contain REACH SVHCs (Substances of Very High Concern) materials and is considered non-hazardous 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 H-statements mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of 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: For 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.

Eye Contact: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 minutes.

Ingestion: After swallowing, no special treatment is required.

4.2 Most important symptoms and effects, both acute and delayed

Acute Health **Route of Entry or Possible Contact:** Eyes, Skin, Ingestion

Effects:

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 vapour pressure or high viscosity.

Ingestion: Ingestion is not expected in industrial use.

Additional Information on acute health effects: The health hazards 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.

Further Information

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Chronic Health Effects: 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.

Medical conditions which may be aggravated by exposure: None known
Target Organs Affected: No known internal organ effects.

Signs and Symptoms of Exposure: Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive Toxins: 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.
 See Section 11 for Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing Media

Suitable extinguishing media: Carbon dioxide (CO₂), Alcohol-Resistant Foam, Dry Sand

Unsuitable extinguishing media: Water, dry chemical, halones

5.2 Special hazards arising from the product

Specific hazards during fire-fighting: The catalysed cured HVMC putty 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.

5.3 Advice for firefighters

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.

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Further information: 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
 The catalysed cured HVMC putty does not present any unusual fire or explosion hazards.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions: Secure the area. Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

6.2 Environmental Precautions

Environmental Precautions Prevent material from entering surface waters, drains or sewers and soil.

6.3 Methods and materials for containment and cleaning up

Take up mechanically and dispose of according to local/federal regulations. Use vented recovery containers. Clean any slippery coating that remains using a detergent/soap solution or another biodegradable cleaner. Apply sand or another inert granular material to improve traction.

6.4 Reference to other sections

For disposal instructions see section 13.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice 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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: None known

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

Storage temperature: Store in a dry and cool place

Other data: Store in original container. Protect against moisture. Store container in a well-ventilated place.

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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Limit Values: Associate substances with specific control parameters (limit values): None known

8.2 Exposure Controls

Engineering measures	Ventilation: Use with adequate ventilation. Local Exhaust: Not necessary.
Respiratory protection	Not normally required
Eye protection:	Recommendation: Safety glasses with side shields or chemical safety goggles.
Hand protection:	Recommendation: Butyl rubber protective gloves, neoprene gloves, PVC gloves.
Other protective clothing or equipment:	Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower
Hygiene measures:	When handling, do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Blue	Lower Explosion Limit (LOL):	Not applicable
Physical state:	Paste	Upper Explosion Limit (UEL):	Not applicable
Odour:	Odourless	Vapour Pressure	Not applicable
Odour Threshold:	Not applicable	Vapour Density:	Not applicable
Partition Coefficient: n-octanol/water:	Not applicable	Evaporation Rate:	Not applicable
Melting Point/melting range:	Not applicable	Density	1.30g/m ³
Boiling Point/boiling range:	Not applicable	Water solubility/miscibility:	Virtually insoluble
Flash Point:	Not applicable	pH-Value:	Not applicable
Ignition Temperature:	Not determined	Viscosity (Dynamic):	Not applicable
Decomposition Temperature:	Not applicable		

SECTION 10 STABILITY AND REACTIVITY

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10.1 Reactivity:	Component B - stable under normal conditions of use.
10.2 Chemical stability:	Catalysed cured putty - stable under normal conditions of use. Component B - stable under normal conditions of use.
10.3 Possible hazardous reactions:	Catalysed cured putty - stable under normal conditions of use. Component B – 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).
10.4 Conditions to avoid:	Component B – 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. Catalysed cured putty – none known.
10.5 Incompatible materials:	Component B – 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. Catalysed cured putty – none known (hazardous polymerisation cannot occur).
10.6 Hazardous decomposition products:	Component B – Possible formation of hydrogen and small amounts of formaldehyde at temperatures above about 150°C (302°F) through oxidation. Catalysed cured putty – Decomposition products could include carbon monoxide, carbon dioxide and silicon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological testing has not been conducted with this material

Acute oral toxicity	Assessment:	For this endpoint no toxicological test data is available for the whole product
Skin irritation	Assessment:	For this endpoint no toxicological test data is available for the whole product
Eye irritation	Assessment:	For this endpoint no toxicological test data is available for the whole product
Sensitisation	Assessment:	For this endpoint no toxicological test data is available for the whole product
Germ cell matagenicity	Assessment:	For this endpoint no toxicological test data is available for the whole product
Carcinogenicity assessment	Assessment:	For this endpoint no toxicological test data is available for the whole product
Toxicity to reproduction assessment	Assessment:	For this endpoint no toxicological test data is available for the whole product
STOT-Single exposure	Assessment:	For this endpoint no toxicological test data is available for the whole product
STOT-Repeated exposure	Assessment:	For this endpoint no toxicological test data is available for the whole product

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Aspiration hazard Assessment: Based on the physical-chemical properties of the product no aspiration hazard must be expected.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Assessment:	For the product as a whole, no test data is available. According to current knowledge adverse effects on water purification plants are not expected.
12.2 Persistence and degradability	Assessment:	Biologically not degradable. Insoluble in water. Separation by sedimentation.
12.3 Bio-accumulative potential	Assessment:	No adverse effects expected.
12.4 Mobility in soil	Assessment:	Insoluble in water. No adverse effects expected.
12.5. Results of PBT and vPvB assessment	Assessment:	None known
12.6. Other adverse effects Additional ecological information	Assessment:	None known.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Product Disposal

Recommendations: Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. Materials designated for disposal must be segregated from incompatible substances or materials specified in section 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers.

13.2 Packaging Disposal:

Recommendations: Containers may contain hydrogen gas. Un-cleaned containers should not be reused to hold another material due to the potential of reaction between residual product and incompatible materials. Un-cleaned packaging should be treated with the same precautions as the material. Containers should be completely emptied before recycling as specified in government regulations.

SECTION 14 TRANSPORT INFORMATION

14.1

14.2

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	UN Number	Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
DOT/TDG	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
ADR	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
IATA-DGR/ICAO	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
IMO/IMDG	Not Applicable	Not Applicable	Not Applicable	Not Applicable	None
14.6 Special precautions for user:		Not classified as dangerous in the meaning of transport.			
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:		Not applicable			

SECTION 15 REGULATORY INFORMATION

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

USA

TSCA Inventory Status and Information: This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification: This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals: This material does not contain any CERCLA regulated chemicals.

SARA Title III

SARA 302 EHS Chemicals This material does not contain any SARA Extremely hazardous substances.

SARA 311/312 Hazard This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals: This material does not contain any SARA 313 chemicals above the minimum levels.

HAPS (Hazardous Air Pollutants) 108-88-3 Toluene

15.2 U.S. State Regulations

California Proposition 65 Carcinogens

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13463-67-7 Titanium dioxide
 14808-60-7 Quartz

California Proposition 65 Reproductive Toxins

108-88-3 Toluene

Massachusetts Substance List

14808-60-7 Quartz
 8042-47-5 Mineral Oil

New Jersey Right-to-Know Hazardous Substance List

14808-60-7 Quartz

Pennsylvania Right-to-Know Hazardous Substance List

14808-60-7 Quartz
 8042-47-5 Mineral Oil

15.3 Canadian Regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Classes: None

DSL Status: This material or one or more of its components is not listed on the Canadian Domestic Substances List. However, the material or some of its components are listed on the NDSL (Non-Domestic Substances List)

Non-DSL Chemicals:

CAS No.	Chemical	Upper limit wt. %
Confidential	Green Belting Industries Ltd.	0.4

Canadian Ingredient Disclosure List

14808-60-7 Quartz

15.4 Other International Regulations

EC Classification for the Substance/Preparation

Symbol: This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

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

Details of International Registration Status

Listed on or in accordance with the following inventories:

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DSL	Canada
TSCA	USA
AICS	Australia
IECSC	China
ECL	Korea
EINECS	Europe
PICCS	Philippines

SECTION 16 OTHER INFORMATION

Preparation Information:

Prepared by: Green Belting Industries Limited
www.greenbelting.com

Revision Date: January 1, 2016

Revision Summary: EU contact updated.

Abbreviations and acronyms:

Section	Abbreviation	Description
2	CFR	Code of Federal Regulations
2	HAPS	Hazardous Air Pollutants
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
6	HAZWOPER	Hazardous Waste Operations and Emergency Response
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	TDG	Transport of Dangerous Goods
14	DER	Dangerous Goods Regulations
14	MARPOL	International Convention for the Prevention of Pollution From Ships
14	IBC	International Building Code

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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	DSL	Domestic Substance List
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
16	AICS	Australian Inventory of Chemical Substances
16	IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
16	ECL	Existing Chemicals Inventory
16	EINECS	European Inventory of Existing Commercial chemical Substances
16	PICCS	Philippines Inventory of Chemicals and Chemical Substances
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.		

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