

SAFETY DATA SHEET

according to the Hazardous Products Regulations

MBCC GROUP

MasterSeal HLM 5000 LOW VOC

Version 3.0 Revision Date: 10/18/2023 SDS Number: 960000012261 Date of last issue: 10/02/2023
Date of first issue: 10/26/2021

SECTION 1. IDENTIFICATION

Product name : MasterSeal HLM 5000 LOW VOC
Product code : 000000000055590866 000000000055590866
Other means of identification : No data available

Manufacturer or supplier's details

Company name of supplier : MBSCS Canada, Inc.
Address : 7111 Syntex Drive, 3rd Floor
Mississauga ON L5N 8C3
Emergency telephone : ChemTel: +1-813-248-0585;
National Emergency Telephone Number : USA: +1-800-255-3924 ChemTel contract no. MIS9240420

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives and/or sealants
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquids : Category 3
Skin irritation : Category 2
Serious eye damage : Category 1
Reproductive toxicity : Category 1B
Specific target organ toxicity - repeated exposure (Inhalation) : Category 1 (Central nervous system)
Short-term (acute) aquatic hazard : Category 3

GHS label elements

Hazard pictograms : 

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Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.
H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe mist or vapors.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P331 Do NOT induce vomiting.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : polyurethane

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
talc	hydrated magnesium silicate	14807-96-6	$\geq 20 - < 30$
Asphalt	Bitumen	8052-42-4	$\geq 5 - < 10$
4-Chloro- α,α,α -trifluorotoluene	Benzene, 1-chloro-4-(trifluoromethyl)-	98-56-6	$\geq 5 - < 10$
calcium oxide	quicklime	1305-78-8	$\geq 5 - < 10$
Stoddard solvent	Stoddard solvent	8052-41-3	$\geq 5 - < 10$
Distillates (petroleum), hydrotreated heavy naphthenic	Hydrotreated heavy naphthenic distillate solvent extract (petroleum)	64742-52-5	$\geq 1 - < 5$
dibutyltin dilaurate	Stannane, dibutylbis[(1-oxododecyl)oxy]-	77-58-7	$\geq 0.1 - < 1$
Carbon black	Lampblack	1333-86-4	$\geq 0.1 - < 1$

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled : Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.

In case of skin contact : After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open.

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- Remove contact lenses, if present.
If eye irritation persists, consult a specialist.
- If swallowed : Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
Do not induce vomiting unless told to by a poison control center or doctor.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.
Causes serious eye damage.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure if inhaled.
- Notes to physician : Treat symptomatically.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry powder
Alcohol-resistant foam
- Unsuitable extinguishing media : water jet
- Specific hazards during fire fighting : Evolution of fumes/fog.
- Hazardous combustion products : harmful vapours
- Further information : The degree of risk is governed by the burning substance and the fire conditions.
Containers may rocket or explode in heat of fire.
Keep containers cool by spraying with water if exposed to fire.
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.
Contaminated extinguishing water must be disposed of in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Can release flammable vapours.
Wind direction should be noted.
Avoid all sources of ignition: heat, sparks, open flame.
Use antistatic tools.
Breathing protection required.
Use personal protective clothing.
- Environmental precautions : Prevent spread over a wide area (e.g. by containment or oil
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barriers).
Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Pick up with suitable absorbent material.
Dispose of in accordance with national, state and local regulations.
Large spills should be collected mechanically (remove by pumping) for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Sources of ignition should be kept well clear.
Take precautionary measures against static discharges.
Substance/product can form explosive mixture with air.
Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.

Advice on safe handling : Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.
Provide good room ventilation even at ground level (vapours are heavier than air).

Further information on storage conditions : Keep container tightly closed and in a cool place.

Materials to avoid : Segregate from foods and animal feeds.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
talc	14807-96-6	TWAEV (fibres)	1 fibres per cubic centimeter	CA QC OEL
		TWAEV (respirable dust)	2 mg/m ³	CA QC OEL
		TWA	0.1 fibres per cubic centimeter	CA BC OEL
		TWA (Respirable particulates)	2 mg/m ³	CA AB OEL
		TWA (Respirable)	2 mg/m ³	CA BC OEL
		TWA	2 fibres per cubic centimeter	CA ON OEL
		TWA (Respirable frac-	2 mg/m ³	CA ON OEL

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		tion)		
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m ³	ACGIH
Asphalt	8052-42-4	TWA (Fumes)	5 mg/m ³	CA AB OEL
		TWA (Inhalable fume)	0.5 mg/m ³ (benzene soluble aerosol)	CA BC OEL
		TWAEV (Fumes)	5 mg/m ³	CA QC OEL
		TWA (Fume, inhalable fraction)	0.5 mg/m ³ (benzene soluble aerosol)	ACGIH
calcium oxide	1305-78-8	TWA	2 mg/m ³	CA AB OEL
		TWA	2 mg/m ³	CA BC OEL
		TWAEV	2 mg/m ³	CA QC OEL
		TWA	2 mg/m ³	ACGIH
Stoddard solvent	8052-41-3	TWA	100 ppm 572 mg/m ³	CA AB OEL
		TWA	290 mg/m ³	CA BC OEL
		STEL	580 mg/m ³	CA BC OEL
		TWAEV	100 ppm 525 mg/m ³	CA QC OEL
		TWA	525 mg/m ³	CA ON OEL
		TWA	100 ppm	ACGIH
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH
dibutyltin dilaurate	77-58-7	TWA	0.1 mg/m ³ (Tin)	CA AB OEL
		STEL	0.2 mg/m ³ (Tin)	CA AB OEL
		TWAEV	0.1 mg/m ³ (Tin)	CA QC OEL
		STEV	0.2 mg/m ³ (Tin)	CA QC OEL
		TWA	0.1 mg/m ³ (Tin)	CA BC OEL
		STEL	0.2 mg/m ³ (Tin)	CA BC OEL
		TWA	0.1 mg/m ³ (Tin)	CA ON OEL
		TWA	0.1 mg/m ³ (Tin)	ACGIH

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		STEL	0.2 mg/m ³ (Tin)	ACGIH
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Engineering measures : Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Wear appropriate certified respirator when exposure limits may be exceeded.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection

Remarks : Wear chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Wear safety glasses with side shields or goggles.

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

Protective measures : Do not inhale dust/fumes/aerosols.
Avoid contact with the skin, eyes and clothing.
Avoid exposure.
Handle in accordance with good building materials hygiene and safety practice.
Wearing of closed work clothing is recommended.

Hygiene measures : No eating, drinking, smoking or tobacco use at the place of work.
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid, slightly viscous

Color : brown-black

Odor : slight, aromatic

Odor Threshold : not determined

pH : Not applicable

Melting point : Not applicable

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Freezing point	:	No data available
Boiling point/boiling range	:	153 °C
Flash point	:	54 °C
Evaporation rate	:	No data available
Flammability (liquids)	:	Flammable liquid and vapor.
Self-ignition	:	not self-igniting
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	Heavier than air.
Relative density	:	No data available
Density	:	1.28 g/ml
Solubility(ies)	:	
Water solubility	:	sparingly soluble (15 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	No data available
Decomposition temperature	:	Vapors may form explosive mixture with air. No decomposition if stored and handled as prescribed/indicated.
Viscosity	:	
Viscosity, dynamic	:	470 poise
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not an oxidizer.

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Sublimation point : No data available

Molecular weight : Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions : The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid : Avoid all sources of ignition: heat, sparks, open flame.
Avoid electro-static discharge.
Avoid heat.

See SDS section 7 - Handling and storage.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Group 2B: Possibly carcinogenic to humans
Asphalt

8052-42-4

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(Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving)

Group 2B: Possibly carcinogenic to humans 4-Chloro- α,α,α -trifluorotoluene	98-56-6
Group 2B: Possibly carcinogenic to humans Carbon black	1333-86-4

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxi-

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ology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Observe national and local legal requirements. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. The use and processing of this product, or addition of other constituents, may cause it to be considered a hazardous waste. Residues should be disposed of in the same manner as the substance/product.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

- UN number : UN 1866
Proper shipping name : RESIN SOLUTION
Class : 3
Packing group : III
Labels : 3
Environmentally hazardous : no

IATA-DGR

- UN/ID No. : UN 1866
Proper shipping name : Resin solution
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 1866
Proper shipping name : RESIN SOLUTION

Class : 3
Packing group : III
Labels : 3

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EmS Code : F-E, S-E
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG

UN number : UN 1866
Proper shipping name : RESIN SOLUTION

Class : 3
Packing group : III
Labels : 3
ERG Code : 127
Marine pollutant : no
Remarks : Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory
DSL : All components of this product are on the Canadian DSL

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

toluene-2,6-diisocyanate 91-08-7
4-methyl-m-phenylene diisocyanate 584-84-9

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL : Canada. British Columbia OEL
CA ON OEL : Ontario Table of Occupational Exposure Limits made under the Occupational Health and Safety Act.
CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
ACGIH / TWA : 8-hour, time-weighted average
ACGIH / STEL : Short-term exposure limit
CA AB OEL / TWA : 8-hour Occupational exposure limit
CA AB OEL / STEL : 15-minute occupational exposure limit

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CA BC OEL / TWA	:	8-hour time weighted average
CA BC OEL / STEL	:	short-term exposure limit
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)
CA QC OEL / TWA EV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Revision Date	:	10/18/2023
Date format	:	mm/dd/yyyy

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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CA / EN