

CARMEL GROUP INC.

MATERIAL SAFETY DATA SHEET

Section 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name Skirt Marking Chalk	Product Code TC15003 (See p.8)
Product Use To be used in conjunction with skirt marking tool. Marks steam away.	
Manufacturer / Supplier Carmel Group Inc. 10220 Armand Lavergne, Montréal, Québec, Canada, H1H 3N4	
Phone : 514-270-5377 Fax : 514-270-2025 Internet : www.carmelgroup.net	
Emergency Phone Number (USA & Canada) CHEMTREC (USA) : 800-424-9300 CHEMTREC (International) : 1-703-527-3887 CANUTEC (Canada) : 613-996-666	
MSDS Issue Date : January 7, 2010	MSDS Version : 2.01

Section 2 – HAZARD IDENTIFICATION

2.1 Emergency Overview

Appearance/Odor : White solid powder.

Description : Dust from this product can be toxic if their inhale in large quantity or in small quantity for a long period.

2.2 OSHA & WHMIS Status

The product is an hazardous material as defined by U.S. OSHA HCS (29 CFR 1910.1200). The product is considered to be hazardous material as defined by Canadian WHMIS Controlled Product Regulation (CPR). It is classified under Class D2A (Class D Poisonous and infectious Materials : Very toxic material causing other toxic effects).

2.3 Potential Health Effects (See Section 11 for more Information)

Likely Route of Exposure

Inhalation, skin and/or eye contact of the powder during manipulation.

Eye : May cause mild, transient irritation.

Skin : May cause mild, transient irritation.

Ingestion : No known irritation. Do not ingest.

Inhalation : Potential irritation, may be harmful if inhaled. Chronic exposure can be toxic.

Medical Condition Aggravated by Exposure

None known.

Target Organs : Eyes, skin, respiratory system.

Carcinogenicity (NTP, IARC and OSHA)

Breathable Silica (CAS#14808-60-7) is considered a carcinogen by IARC (Group 1 carcinogen),

ACGIH (A2 - Suspected Human Carcinogen) and is listed in the NTP list of known human carcinogen.

2.3 Potential Environmental Effects (See Section 12 for more Information)

None known.

Section 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Component	Cas #	% by Wt	Classification and R phrases
Limestone	1317-65-3	98,1%	R36, S26 and S39
Silicone Dioxide	14808-60-7	1,9%	R23 and S24/25

Section 4 – FIRST AID MEASURES

4.1 First Aid Procedures

Eye : If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.

Skin : Wash skin with water & soap or industrial hand cleaner.

Ingestion : Administer large quantities of water. Do not induce vomiting. Call a physician.

Inhalation : Remove individual to a well ventilated area for fresh air and call a physician to attend to the injury.

4.2 Note to Physicians

None.

Section 5 – FIRE FIGHTING MEASURES

5.1 Flammable Properties (See Section 9 for more Information)

Will not burn if involved in a fire, but will decompose at high temperature (825°C / 1520°F).

NFPA Rating	Flammability	Health Hazard	Instability	Special Hazards
0 = Minimal 1 = Slight hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard	0	2	0	

5.2 Extinguishing Media

5.2.1 Suitable Extinguishing Media
Not Available.

5.2.2 Unsuitable Extinguishing Media
None.

5.3 Protection of Fire fighters

5.3.1 Specific Hazards Arising from the Chemical
High temperature can produce carbon dioxide and calcium oxide (quicklime).

5.3.2 Protective Equipment and Precautions for Fire-fighters
Keep people away from fire and smoke, wear full fire fighting turn-out gear and respiratory

protection.

Section 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Use recommended personal protective equipment for solid product (See Section 8 for more Information).

6.2 Environmental Precautions

Use physical barrier to prevent spilled material from entering waterways.

6.3 Methods for Containment

No containment needed for solid state. Any physical barrier will stop the spreading of the dust.

6.4 Methods for Clean-Up

For large spill you may want to use to sweep up a control sweeping compounds or vacuum with H.E.P.A. filter. For small quantity you just sweep up.

6.5 Other Information

None

Section 7 – HANDLING AND STORAGE

7.1 Handling

Handle as a fragile material. Keep containers closed to prevent spills and wash thoroughly exposed body part after using. See section 8.3 for personal protective equipment (PPE).

7.2 Storage

Normal precaution should be followed in handling and storage. Store in a dry & cool place.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Guidelines

Hazardous Ingredients	CAS #	Exposure Limits (ppm)					
		OSHA		ACGIH		NIOSH	
		TWA	STEL	TWA	STEL	TWA	STEL
Limestone	1317-65-3	15	None	10	None	10	None
Silicone Dioxide	14808-60-7	0.1	None	0.05	None	0.05	None

8.2 Engineering Controls

Not needed for normal use.

8.3 Personal Protective Equipment (PPE)



8.3.1 Eye / Face Protection
Protective glass.

8.3.2 Skin Protection
Latex or vinyl glove.

8.3.3 Respiratory Protection

Dust mask with the NIOSH certification of N95 Particulate Respirator.

8.3.4 General Hygiene Considerations

Wash exposed part with soap.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance White powder	Odor None	Physical state Solid @ 25°C/77°F
pH Not Available	Vapour pressure (mm Hg) 0.0 mm Hg (approx)	Vapour Density Not Available
Boiling point Decomposes	Melting point 825-1338°C/1517-2442°F (Decomposes)	Flash point Not Available.
Autoignition Temperature Not Available	Decomposition Temperature Not Available	Specific Gravity (H ₂ O = 1) 2.95 - 3.08
Evaporation Rate Not Available	Coefficient of water/oil distribution Not Available	Odor Threshold (ppm) Not Determined.
Relative Density > 1g/ml	Solubility-Water 0.0015 g/ 100 ml	Partition Coefficient n-octanol/water Not Available

Section 10 – STABILITY AND REACTIVITY DATA**10.1 Chemical Stability**

Stable. Hazardous polymerisation will not occur.

10.2 Conditions to Avoid

Reacts with acids and acidic salts to generate gaseous carbon dioxide with effervescence (bubbling). The reaction with concentrated solutions of acids is rapid and exothermic. The effervescence can create extensive foaming. Ignites on contact with fluorine.

10.3 Incompatible Materials

Incompatible with acids, alum, ammonium salts, fluorine, magnesium.

10.4 Hazardous Decomposition Products

High temperature (825°C / 1520°F) can produce carbon dioxide and calcium oxide (quicklime).

10.5 Possibility of Hazardous Reactions

None Known.

Section 11 – TOXICOLOGICAL INFORMATION**11.1 Acute Effects**

Hazardous Ingredients	CAS #	%	Oral LD ₅₀	Dermal LD ₅₀
None	None	Nil	None	None

Inhalation : Chronic exposure to dust can be harmful and even toxic.**Eye Irritation** : Possible irritant for the eyes.**Skin Irritation** : None Known.

Sensitization : None Known.

11.2 Chronic Effects

Carcinogenicity : Breathable Silica (CAS#14808-60-7) is considered a carcinogen by IARC (Group 1 carcinogen), ACGIH (A2 - Suspected Human Carcinogen) and is listed in the NTP list of known human carcinogen.

Mutagenicity/Teratogenicity : Not listed.

Reproductive Effects : No effects known.

Development Effects : No effects known.

Section 12 – ECOLOGICAL INFORMATION

Ecotoxicity : Not determined.

Persistence/Degradability : Not determined.

Bioaccumulation/Accumulation : Not determined.

Mobility in Environmental Media : Not determined.

Other Adverse Effect : None known.

Section 13 – DISPOSAL CONSIDERATION

Waste Disposal : Dispose as industrial waste in accordance with appropriate Federal, State and local regulation.

Section 14 – TRANSPORT INFORMATION

14.1 Basic Shipping Description

US DOT : Not regulated.

14.2 Additional Information

IMO : Not regulated.

Canadian TDG : Not regulated.

ICAO : Not regulated.

IATA : Not regulated.

Section 15 – REGULATORY INFORMATION

15.1 Global Inventory Status

TSCA (United States) : All ingredients of this product are listed on the U.S. Environmental Protection Agency (EPA) , (TSCA) Toxic Substances Control Act and Chemical Substance Inventory.

DSL (Canada) : All ingredients of this product are listed on the Canadian (EPA) Canadian Environmental Protection Act.

EINECS (EU) : All ingredients of this product are listed on the European Inventory of Existing Chemical Substances (EINECS).

AICS (Australia) : All ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

15.2 SARA Status

Hazard Class(es) Section (311/312) : None.

Section 313 Toxic Chemicals : None.

Section 302 Extremely Hazardous Substances (EHS) : None.

15.3 US State Regulations

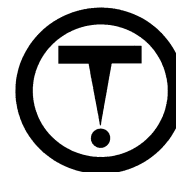
Limestone (1317-65-3) appear on the Massachusetts and Minnesota Right-To-Know Substance List as well as the Pennsylvania Hazardous Substance list.

Silicone Dioxide (14808-60-7) appear on the California, Massachusetts, Minnesota and New Jersey Right-To-Know Substance List as well as the Pennsylvania Hazardous Substance list and the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List.

15.4 WHMIS Status & Classifications

The product is considered to be hazardous material as defined by Canadian WHMIS Controlled Product regulation(CPR). It is classified under Class D2A (Class D Poisonous and infectious Materials : Very toxic material causing other toxic effects).

Silicone Dioxide (14808-60-7; <2%) appear on the Canadian WHMIS Ingredient Disclosure List.



D2A

15.5 OSHA Status & Classifications

The product is an hazardous material as defined by U.S. OSHA HCS (29 CFR 1910.1200).

Section 16 – OTHER INFORMATION

MSDS of the product is classified in accordance with all the required information for his hazard criteria under the Health Communication Standards (HCS) of the U.S. OSHA and all the required information for his hazard criteria under the Controlled Products Regulations (CPR) of the Canadian WHMIS.

MSDS of the product is made following the Z400.1-2003 standards of the ANSI.

Prepared By : Samia Ghezlaoui

The information contained in this document is derived from data supplied to Carmel Group by the manufacturers or distributors of the raw materials combined to form this product. However, Carmel Group makes no representations as to its completeness or accuracy. To the best of our knowledge all hazards have been noted for the intended use of the product and, since Carmel Group cannot control conditions of use, the end user is obliged to determine the conditions permitting safe use of the product. In no event will Carmel Group be responsible for damage of any nature whatsoever resulting from the use of or reliance upon the information contained herein.

CARMEL GROUP INC.
SKIRT MARKING CHALK RODUCT

Product code	Product Description
TC15003	White Skirt Marking Chalk 8 oz Container