CARMEL GROUP INC.

MATERIAL SAFETY DATA SHEET

WHMIS	Protective Clothing	TDG Road/Rail
 D-2B		

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product			Revision date
Disappearing Tailor Chalk			Nov 27, 2012
Previous revision date 24/11/07	Product code TC13203, TC13303 & TC17547 (See p.5)	Material use A tailor chalk formulated to disappear over time by itself or immediately upon ironing.	

Manufacture's Name and issuing location	EMERGENCY PHONE NUMBER
CARMEL GROUP INC. 10220 ARMAND LAVERGNE, MONTRÉAL, QUEBEC, CANADA, H1H 3N4 PHONE 514-270-5377 FAX : 514-270-2025 INTERNET : wwww.carmelindustries.com	CANUTEC 613-996-6666

SECTION 2 – CONPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Note (Sect 15)	CAS #	Amount	**Toxicity in Solid format (mg/kg)**		
				LD50 (Oral)	LC50 (Inhalation, rat)	TDLo (Skin)
Benzoic Acid	1,2,3,4,5	65-85-0	>85%	1940 (mouse) 1700 (rat) ***(for pure compound)***	> 26 mg/m^3/1h 18-23 mg/m^3/4h ***(for pure compound)***	6 (human) ***(for pure compound)***

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview

The product is not expected to present any unusual hazards in proper use (one chalk in a well ventilated area). Overheating is considered abnormal usage of the product. Because of the presence of benzoic acid in the product, contact with mucosa or skin must be avoid and glove always be in usage. Keep away from young children.

Warning! Can cause eye, skin, and respiratory tract irritation if large quantity are present. May cause allergic respiratory and skin reaction on some people. May be harmful if swallowed, inhaled, or absorbed through the skin.

EYE CONTACT	Not likely to occur because solid chalk at room temperature. If ever in contact with eye, can causes severe eye irritation and possible injury. Avoid touching or rubbing the eye after disappearing chalk have been manipulated.
SKIN CONTACT	Can cause moderate skin irritation and allergic contact dermatitis. May be absorbed through the skin in harmful amounts and cause laboured breathing in human. Will cause redness and swelling with itching on skin with most people. Never manipulate without protective glove. May cause skin sensitization and dermatitis from prolonged or repeated skin contact.

INHALATION	No aerosol at room temperature. Direct sniffing of the chalk can cause nose, throat and lung irritation. Product begins to sublimate at 100°C
INGESTION	Not likely to occur. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Potential Health Effects (NFPA Classification)			
Fire hazard : 1	Health Hazard : 2	Reactivity : 0	Personal Protection : See Section 8
0 = Minimal 1 = Slight hazard 2= Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard			

Potential Health Effects (HMIS Rating)		
Health : 2	Flammability : 1	Reactivity : 0
0 = Minimal 1 = Slight hazard 2= Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard		

SECTION 4 – FIRST AID MEASURES

EYE CONTACT	Immediately rinse with plenty of water for at least 15 minutes while lifting up the eyelids. Seek medical attention.
SKIN CONTACT	In case of contact, flush skin with plenty of water. Remove contaminated clothing. Seek medical attention if irritation develops and persists. Wash cloth before they are reuse.
INHALATION	Not likely to occur with solid product. If inhaled, remove to fresh air. Seek medical attention.
INGESTION	Not likely to occur. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
ADDITIONAL INFO	Persons with asthma, allergies, skin disorders, chronic respiratory disease or eye problems may be at increased risk from exposure to this product.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media	Use water spray, CO_2, dry powder or foam.
Special Fire fighting Procedure	Keep people away from fire and smoke, Wear full fire fighting turn-out gear and respiratory protection (SCBA). Use water spray cool fire-exposed containers and structures. Water runoff can cause environment damage. Dike and collect water used to fight fire. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Reacts with most metal in presence of moisture, liberating extremely flammable hydrogen gas.
Unusual Fire and Explosion Hazards	This product will burn if involved in a fire.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills	Not likely to occur in solid format. Sweep and scrap the spill.
Large Spills	Not likely to occur in solid format. Avoid runoff into storm sewers and ditches which lead to water ways. Clean up spills immediately, observing precautions specified in section 8. Avoid generating dusty conditions. Provide ventilation. Cover with soda ash or sodium bicarbonate and place in a closed container for disposal.

SECTION 7 – HANDLING AND STORAGE

Handling procedures	Handle as a fragile material. Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Wash clothing before reuse. Avoid breathing dust.
Storage precautions	Normal precaution should be followed in handling and storage. Store in a dry and well ventilated place. Keep out of direct sunlight. Do not store at temperature : > 104˚F / 40˚C

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION	
Respiratory protection	No special respiratory protection is normally required. Do not smell or inhale the chalk.
Protective gloves	Wear oil resistant glove like Neoprene or rubber.
Eye protection	None is normally required.
Clothing	Standard industrial.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Odour	Physical state	Boiling point
Rectangular chalk	Acidic	Solid @ 77°F/25°C	~250°C / 480°F
Melting point	Specific gravity (H_2O=1)	Vapour pressure (mm Hg)	Solubility in water

~120°C / 250°F	1.26	<0.01 @ 77°F/25°C	3.4 g/l @ 77°F/25°C
Solubility in organic solvent Partly soluble	Partitioning coefficient 1.87	Flash point ~120°C / 250°F	Sublimation point ~100°C / 210°F

SECTION 10 – STABILITY AND REACTIVITY DATA

Stability Stable under normal temperature and pressures. Volatile in steam.	Hazardous polymerization Will not occur.

Incompatibility
Avoid contact with strong oxidizing agent (ex. Peroxides, chlorine), strong bases, amines, ammonia, isocyanates, heat or high temperature. May attack some metal when in solution.

Hazardous decomposition products
Burning can produce noxious and toxic fumes, and the following combustion products : Oxides of carbon, phenol, benzene & other complex chemicals.

SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity Not listed	Mutagenicity / Teratogenicity Not listed
Irritancy of Material Potential irritant.	Sensitizing Capability N / AV.
Reproductive Effects N / AV.	Synergistic Materials None known

SECTION 12 – ECOLOGICAL INFORMATION

This product is soluble in water, but is also biodegradable (half-life < 1 week in soil and 0.2-3.6 days in water). Can be acutely toxic to aquatic organism when present in high quantities.

SECTION 13 – DISPOSAL CONSIDERATION

Dispose of in accordance with appropriate Federal, State and local regulation.

SECTION 14 – TRANSPORT INFORMATION

Dot Hazard Classification
Not regulated.

IATA Classification
Not regulated.

ICAO Classification
Not regulated.

IMO Classification
Not regulated.

TDG Hazard Classification
Not regulated.

UN / NA Hazard No.
No number as product is not regulated.

Other
N / AV.

SECTION 15 – REGULATORY INFORMATION

Hazard Details of SECTION 2	**1** Appears on the California Right-To-Know Substance List. **2** Appears on the Massachusetts Substance List. **3** Appears on the New Jersey Right-To-Know Hazardous Substance List. **4** Appears on the Pennsylvania Hazardous Substance List. **5** Appears on the Canadian WHMIS Ingredient Disclosure List.
SARA Status	None
SARA Hazard Cat.	CAS # 65-85-0 : immediate.
TSCA Status	All ingredients of this product are listed on the U.S. EPA TSCA (Toxic Substances Control Act) Chemical Substance Inventory.
TSCA Notification	None
DSL Status	All ingredients of this product are listed on the Canadian EPA (CEPA) Domestic Substances List (DSL).

EINECS Status	All ingredients of this product are listed on the European Inventory of Existing Chemical Substances (EINECS).
AICS Status	All ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).
OSHA Status	Considered to be hazardous material as defined by U.S. OSHA HCS (29 CFR 1910.1200).
WHMIS Status	Considered to be hazardous material as defined by Canadian WHMIS Controlled Product Regulation (CPR). Is classified under Class D2 sub B (Class D Poisonous and infectious Materials : Toxic material causing other toxic effects).
OSHA HCS Compliance	MSDS of the product is classified in accordance with all the required information for his hazard criteria under the Health Communication Standards of the U.S. OSHA.
WHMIS CPR Compliance	MSDS of the product is classified in accordance with all the required information for his hazard criteria under the Controlled Products Regulations of the Canadian WHMIS.
ANSI Z400.1-1993 Compliance	MSDS of the product is made following the Z400.1-1993 standards of the ANSI.

SECTION 16 – OTHER INFORMATION

N/AV=NOT AVAILBLE

MSDS Originally made by	Revised by
David A. Haney	Samia Ghezlaoui

CARMEL GROUP INC.

DISAPPEARING TAILOR CHALK PRODUCTS

Product code	Product Description
TC13203	Slow Disappearing Tailor Chalk
TC13303	Quick Disappearing Tailor Chalk
TC17547	Green Glo Disappearing Tailor Chalk