

# CARMEL GROUP INC.

## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Yellow Tailor Chalk (Superglide, Jumbo & Everlast)		Revision date November 27, 2012
Previous revision date March-2007	Product code TC10002, TC12902 & TC16402	Material use Removable fabric marking.
Manufacture's Name and issuing location CARMEL GROUP INC. 10220 LAVERGNE, MONTRÉAL, QUEBEC, CANADA, H1H 3N4 PHONE : 514-270-5377 FAX : 514-270-2025 INTERNET : www.carmelindustries		EMERGENCY PHONE NUMBER CHEMTREC USA 800-424-9300 International 1-703-527-3887

### SECTION 2 – CONPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Note (Sect 15)	CAS #	Amount	Toxicity in Solid format (mg/kg)		
				LD50 (Oral, mouse)	TDLo (Subcutaneous, rat)	TDLo (Intramuscular, rat)
Lead chromate / Lead sulfo chromate yellow	1,2,3,4,5, 6,7,8	7758-97-6 / 1344-37-2	6.0%	12 <i>(for pure compound)</i>	135 <i>(for pure compound)</i>	324 <i>(for pure compound)</i>

### SECTION 3 – HAZARD IDENTIFICATION

#### Emergency Overview

The product is not expected to present any unusual hazards in proper use (room temperature up to 104°F / 40°C). Overheating is considered abnormal usage of the product. But it may be fatal if swallowed in large quantities (*unlikely*) as one of the ingredients (lead chromate) is poison. In case of ingestion of a large quantity, it can affect the gum tissue, the central nervous system, the kidneys, the blood and the reproductive system. It may affect the liver. May also cause harm to the unborn child.

<b>EYE CONTACT</b>	Not likely to occur because solid chalk at room temperature.
<b>SKIN CONTACT</b>	Local irritation with prolonged contact. Contact with broken skin may cause ulcers. May cause skin sensitization.
<b>INHALATION</b>	No fume or aerosol at room temperature.
<b>INGESTION</b>	Not likely to occur. Poison! The symptoms of lead poisoning include abdominal pain and spasm. Acute poisoning (grams of crayon ingested) can lead to muscle weakness, lead line on the gums, metallic taste, loss of appetite, insomnia, dizziness, high lead levels in blood and urine that can cause ultimately shock, coma and death in extreme case.

#### Potential Health Effects (NFPA Classification)

Fire hazard : 1	Health Hazard : 2	Reactivity : 0	Personal Protection : See Section 8
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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
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0 = Minimal 1 = Slight hazard 2= Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard

### SECTION 4 – FIRST AID MEASURES

<b>EYE CONTACT</b>	Immediately rinse with plenty of water for at least 15 minutes while lifting up the eyelids. Seek medical attention.
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<b>SKIN CONTACT</b>	Remove contaminated clothing, wash skin with water and soap. Wash cloth before they are reuse.		
<b>INHALATION</b>	Not likely to occur with solid product.		
<b>INGESTION</b>	Not likely to occur. Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.		
<b>ADDITIONAL INFO</b>	Persons with asthma, allergies, and know sensitization to chromic acid or chromates may be at increased risk from exposure to this product. Treat symptomatically and supportively. The use of d-Penicillamine as a chelating agent should be determined by qualified medical personnel. The use of Calcium disodium EDTA as a chelating agent should be determined by qualified medical personnel. The use of Dimercaprol or BAL (British Anti-Lewisite) as a chelating agent should be determined by qualified medical personnel.		
<b>SECTION 5 – FIRE FIGHTING MEASURES</b>			
<b>Extinguishing Media</b>	Treat as an oil fire. For small fire use CO <sub>2</sub> , dry powder or foam. For large fire use alcohol-type foam, universal-type foam or water fog.		
<b>Special Fire fighting Procedure</b>	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. Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.		
<b>Unusual Fire and Explosion Hazards</b>	This product will burn if involved in a fire. Contain oxidizer that may greatly increases the burning rate of combustible materials. May accelerate burning if involved in a fire. This product will float upon water, so water spray is not suitable extinguishing agents as it may cause fire to spread.		
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>			
<b>Small Spills</b>	Not likely to occur in solid format. Sweep and scrap the spill.		
<b>Large Spills</b>	Not likely to occur in solid format. May melt if exposed to excessive heat. In that case, let the material solidify and scrap the spill.		
<b>SECTION 7 – HANDLING AND STORAGE</b>			
<b>Handling procedures</b>	None special needed. Handle as a fragile material.		
<b>Storage precautions</b>	Normal precaution should be followed in handling and storage. Store in a dry place. Keep out of direct sunlight. Do not store at temperature : > 104°F / 40°C		
<b>SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>			
<b>PERSONAL PROTECTION</b>			
<b>Respiratory protection</b>	No special respiratory protection is normally required.		
<b>Protective gloves</b>	Wear oil resistant glove like Neoprene or rubber if skin is sensitive.		
<b>Eye protection</b>	None is normally required.		
<b>Clothing</b>	Standard industrial.		
<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>			
Appearance Rectangular chalk	Odour None	Physical state Solid @ 77°F/25°C	Boiling point N / AV.
Melting point ~60°C / 140°F	Specific gravity (H <sub>2</sub> O=1) < 1	Vapour pressure (mm Hg) <0.01 @ 77°F/25°C	Solubility in water Insoluble
Solubility in organic solvent Soluble	Partitioning coefficient N / AV.	Flash point N / AV.	Percent volatiles Nil
<b>SECTION 10 – STABILITY AND REACTIVITY DATA</b>			
Stability Stable	Hazardous polymerization Will not occur.		
Incompatibility Contain a reducing agents that may react with active metals, hydrazine, potassium, hydrogen peroxide, sodium, azodye stuffs (e.g. dinitroaniline orange and chlorinated para red), aluminum + dinitronaphthalene, sulfur tantalum, iron (III) hexacyanoferrate (4-). Avoid contact with strong oxidizing agent (ex. Peroxides, chlorine), Sunlight or ultraviolet light, heat or high temperature.			

Hazardous decomposition products

Burning can produce noxious and toxic fumes, and the following combustion products :  
Oxides of carbon, lead/lead oxides & other complex chemicals.

### SECTION 11 – TOXICOLOGICAL INFORMATION

<p>Carcinogenicity CAS# 7758-97-6 (Lead chromate) is labelled A2 (Suspected Human Carcinogen) by ACGIH, suspected carcinogen (listed as Lead compounds) by NTP, &amp; Group 1 carcinogen (listed as Chromium (VI) compounds) by IARC.</p>	<p>Mutagenicity / Teratogenicity Morphological Transformation: Human, Fibroblast = 500 nmol/L. Mutation Test Systems - not otherwise specified: Human Cells - not otherwise specified = 500 mg/L. Cytogenetic Analysis: Human, Lymphocyte = 13 umol/L.; Cytogenetic Analysis: Human Cells - not otherwise specified = 500 mg/L. Sister Chromatid Exchange: Human, Lymphocyte = 20 umol/L.</p>
<p>Irritancy of Material <b>Potential irritant.</b></p>	<p>Sensitizing Capability <b>Slight.</b></p>
<p>Reproductive Effects <b>Risk of impaired fertility if ingested. (unlikely)</b></p>	<p>Synergistic Materials <b>None known.</b></p>

### SECTION 12 – ECOLOGICAL INFORMATION

This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant. Can be acutely toxic to aquatic organism. However, the toxic component of the product is virtually insoluble in water. The product contain heavy metal that can leak to the ground.

### SECTION 13 – DISPOSAL CONSIDERATION

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

### SECTION 14 – TRANSPORT INFORMATION

<p>Dot Hazard Classification <b>Not regulated.</b></p>
<p>IATA Classification <b>Not regulated.</b></p>
<p>ICAO Classification <b>Not regulated.</b></p>
<p>IMO Classification <b>Not regulated.</b></p>
<p>TDG Hazard Classification <b>Not regulated.</b></p>
<p>UN / NA Hazard No. <b>No number as product is not regulated.</b></p>
<p>Other <b>N / AV.</b></p>

### SECTION 15 – REGULATORY INFORMATION

<p>Hazard Details of SECTION 2</p>	<ol style="list-style-type: none"> <li>1 Appears on the California Right-To-Know Substance List.</li> <li>2 Appears on the Massachusetts Right-To-Know Substance List.</li> <li>3 Appears on the New Jersey Right-To-Know Hazardous Substance List.</li> <li>4 Appears on the Pennsylvania Hazardous Substance List.</li> <li>5 Appears on the Minnesota Right-To-Know Substance List.</li> <li>6 Appears on the Canadian WHMIS Ingredient Disclosure List.</li> <li>7 Subject to the reporting requirements of SARA Title III, Section 313.</li> <li>8 Appears on the California Safe Drinking Water and Toxic Enforcement Act (Prop. 65) Substances List</li> </ol>
<p>SARA Status</p>	<p>This material contains Lead chromate (listed as Lead, inorganic compounds), 6%, (CAS# 7758-97-6) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.</p>
<p>SARA Hazard Cat.</p>	<p>CAS # 7758-97-6: immediate, delayed.</p>
<p>TSCA Status</p>	<p>All ingredients of this product are listed on the U.S. EPA TSCA (Toxic Substances Control Act) Chemical Substance Inventory.</p>

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	Hazardous material as defined by U.S. OSHA HCS (29 CFR 1910.1200).
California Prop 65 Statement	WARNING! This product contains Lead chromate, listed as `Chromium (VI) compounds', a chemical known to the state of California to cause cancer. This product contains Lead chromate, listed as `Lead, inorganic compounds', a chemical known to the state of California to cause developmental reproductive toxicity.
WHMIS Status	Considered to be hazardous material as defined by Canadian WHMIS Controlled Product Regulation (CPR). Is classified under Class D2 sub A (Class D Poisonous and infectious Materials : Very 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.
<b>SECTION 16 – OTHER INFORMATION</b>	
N/AV=NOT AVAILBLE	
MSDS Originally made by David A. Haney	Revised by Samia

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.**  
**YELLOW TAILOR CHALK PRODUCTS**

<b>Product code</b>	<b>Product Description</b>
TC10002	Yellow Super-Glide Tailor Chalk (crayon C3001)
TC16402	Yellow Everlast Tailor Chalk
TC12902	Yellow Jumbo Tailor Chalk (crayon 9R)