

# CARMEL GROUP INC.

## SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product The Giant Permanent Marker		Revision date 10/26/17
Previous revision date 01/05/17	Product code FM20104-FM20109	Material use Marks on dry, wet, dirty, oily, rough and rusty surfaces, from -48°C - 68°C
Manufacturer's Name and issuing location CARMEL GROUP INC. 10220 ARMAND LAVERGNE, MONTRÉAL, QUEBEC, CANADA, H1H 3N4 Tel : 514-270-5377 Fax : 514-270-2025 Internet : www.carmelindustries.com		EMERGENCY PHONE NUMBER CHEMTREC USA 800-424-9300 International 1-703-527-3887

### SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

#### Preparation Hazards and Classification

Canada: This is not a controlled product under WHMIS. This product meets the definition of a "Manufactured article" and is not subject to the regulation of the Hazardous Products Act.

USA: This product is not a hazardous material as defined by 29 CFR1910.1200 the OSHA Hazard Communication Evaluation. This product meets the definition of an "article".

European Communities (EC): This product is not classified as dangerous according to Directive 1999/45/EC and its amendments. This product contains a small amount of a liquid preparation which contains flammable ingredients. However there is no expected release of the liquid during use of the product and there is a barrier preventing exposure of the user and the environment.

Ingrédients	CAS No.	Amount (%)
Copolymer	Not applicable	7-15
Ethanol	64-17-5	10-20
1-Methoxy-2-propanol	107-98-2	40-60

### SECTION 3 – HAZARD IDENTIFICATION

#### Emergency Overview

Flammable Liquid and Vapor. May be irritating to skin, respiratory tract and eyes.

<b>SKIN CONTACT</b>	This product may cause mild to moderate skin irritation. Prolonged or repeated exposure may result in contact dermatitis which is characterized by redness, itching, drying and/or cracking of the skin.
---------------------	--

<b>EYE CONTACT</b>	This product may cause mild to moderate eye irritation. Direct contact or excessive exposure to vapors may cause redness, tearing and stinging.
<b>INHALATION</b>	Inhalation of excessive quantities of vapors may cause irritation of the nose, throat and respiratory tract, as well as headache, nausea, dizziness, loss of coordination & fatigue.
<b>INGESTION</b>	Ingestion of this product may cause gastrointestinal irritation, headache, nausea, vomiting, diarrhea, dizziness, loss of coordination and fatigue.
<b>CHRONIC EFFECTS</b>	None known or reported by the manufacturer
<b>Medical Condition Aggravated by Exposure</b>	Preexisting skin disorders may be aggravated by exposure to this product. Impaired respiratory and liver functions from preexisting medical conditions may be aggravated by exposure to this product.

Potential Health Effects (NFPA Classification)

Fire hazard : 1	Health Hazard : 1	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 : 1	Flammability : 1	Reactivity : 0
0 = Minimal 1 = Slight hazard 2= Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard		

**SECTION 4 – FIRST AID MEASURES**

<b>EYE CONTACT</b>	In case of direct contact, flush eyes with generous amounts of water for at least 15 minutes. <b>Call a physician to attend to the injury if irritation or redness persists.</b>
<b>SKIN CONTACT</b>	Remove contaminated clothing. Wash affected area thoroughly with soap and water. <b>Call a physician to attend to the injury if irritation or redness persists.</b>
<b>INHALATION</b>	Remove individual to a well ventilated area for fresh air. If breathing difficulties develop, oxygen should be administered by qualified personnel. <b>Call a physician to attend to the injury.</b>
<b>INGESTION</b>	Ingestion is an unlikely route of exposure under normal industrial condition. <b>If material is ingested, immediately call a physician.</b>
<b>ADDITIONAL INFO</b>	None

**SECTION 5 – FIRE FIGHTING MEASURES**

<b>Flash Point</b> Less than 23°C / 73°F	<b>Flash Point Category (OSHA)</b> IB - Flammable	<b>Lower Flammability Limit in Air (% by Vol)</b> 1.3 to 1.5
<b>Extinguishing Media</b>	Extinguish with a multipurpose fire fighting CO <sub>2</sub> , water spray, dry powder or foam.	
<b>Special Fire fighting Procedure</b>	The use of self-contained breathing apparatus is recommended for fire fighters. Water spray may be used to cool the packages exposed to heat near the flame. Avoid spreading burning liquid with water used for cooling purposes.	
<b>Unusual Fire and Explosion Hazards</b>	This product is (OSHA) flammable and may be ignited by heat, sparks, flame or static electricity if marker is broken. Vapors are heavier than air, may travel along the ground and may be moved by ventilation; flashback along vapor trail may occur.	

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

<b>Small Spills</b>	Cover remaining spilled product with dry powder, dry sand, or Vermiculite. Eliminate all source of ignition & ventilate area of spill. The product may be already dry before powders are applied.
<b>Large Spills</b>	Unlikely to occur in valve format

**SECTION 7 – HANDLING AND STORAGE**

<b>Handling procedures</b>	None special needed. Don't break or burn the marker
<b>Storage precautions</b>	Normal precaution should be followed. Store in a dry & cool place, out of direct sunlight. Do not store at temperature >50°C/120°F or near spark or open flame.

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

PERSONAL PROTECTION

<b>Respiratory protection</b>	None if product is properly used.
<b>Protective gloves</b>	If marker is frequently used, wear rubber glove to prevent skin contact.
<b>Eye protection</b>	None if product is properly used.
<b>Clothing</b>	Standard industrial.

<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>			
Appearance <b>Marker with a valve</b>	Odour <b>Alcohol/Acetate odour</b>	Physical state <b>Liquid @ 25°C/77°F</b>	Boiling point <b>173°F/78°C to 301°F/149°C</b>
Melting point <b>N/Av.</b>	Specific gravity (H <sub>2</sub> O=1) <b>&gt; 1</b>	Evaporation rate (vs. Butyl Acetate) <b>&lt;0.01 @ 25°C/77°F</b>	Solubility in water <b>Partially soluble</b>
Vapor Density vs. Air <b>Heavier</b>	Partitioning coefficient <b>N/Av.</b>	Typical density (lbs/gal) <b>7.69 to 9.64</b>	Percent volatiles <b>59 to 81 %</b>
<b>SECTION 10 – STABILITY AND REACTIVITY DATA</b>			
Stability <b>Stable</b>		Hazardous polymerization <b>Will not occur.</b>	
Incompatibility <b>Normally unreactive; however avoid contact with strong oxidizing agent (ex. Peroxides, chlorine).</b>			
Hazardous decomposition products <b>Burning can produce noxious and toxic fumes, and the following combustion products: Oxides of carbon, oxides of nitrogen &amp; sulfur.</b>			
<b>SECTION 11 – TOXICOLOGICAL INFORMATION</b>			
Carcinogenicity <b>Ethanol is not listed in NTP or IARC carcinogen list of product. The ethanol present in this product is unsuitable to drink.</b>		Reproductive Effects <b>Ethanol has been linked to birth defects in humans when ingested. However, the ethanol present in this product is unsuitable to drink.</b>	
Irritancy of Material <b>Cause eye &amp; skin irritation.</b>		Sensitizing Capability <b>None known</b>	
Mutagenicity / Teratogenicity <b>Not listed</b>		Synergistic Materials <b>None known</b>	
<b>SECTION 12 – ECOLOGICAL INFORMATION</b>			
<b>Toxic to aquatic organism. Avoid contact with public sewer system.</b>			
<b>SECTION 13 – DISPOSAL CONSIDERATION</b>			
<b>Dispose of in accordance with appropriate Federal, State and local regulation.</b>			
<b>SECTION 14 – TRANSPORT INFORMATION</b>			
Dot Hazard Classification <b>Not Regulated.</b>			
IATA Classification <b>Not Regulated.</b>			
ICAO Classification <b>Not Regulated.</b>			
IMO Classification <b>Not Regulated.</b>			
TDG Hazard Classification <b>Not Regulated.</b>			
UN / NA Hazard No. <b>Not Regulated.</b>			
Other <b>N/Av.</b>			
<b>SECTION 15 – REGULATORY INFORMATION</b>			
Hazard Details of SECTION 2	<ol style="list-style-type: none"> <li><b>1</b> Appears on the California Right-To-Know Substance List.</li> <li><b>2</b> Appears on the Massachusetts Right-To-Know Substance List.</li> <li><b>3</b> Appears on the New Jersey Right-To-Know Hazardous Substance List.</li> <li><b>4</b> Appears on the Pennsylvania Hazardous Substance List.</li> <li><b>5</b> Appears on the Minnesota Right-To-Know Substance List.</li> <li><b>6</b> Appears on the Canadian WHMIS Ingredient Disclosure List.</li> </ol>		

	<b>7</b> Reportable under the export notification requirements of TSCA, Section 12(B).	
SARA Status	No reporting requirement.	
SARA Hazard Cat.	Acute Health Hazard, Flammable	
TSCA Status	All ingredients of this product are listed on the U.S. EPA TSCA (Toxic Substances Control Act) Chemical Substance Inventory. This product also contains ethanol (64-17-5) which is reportable under the export notification requirements of TSCA, Section 12(B).	
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	Not an hazardous material as defined by U.S. OSHA HCS (29 CFR 1910.1200). Falls under the definition of an "article".	
WHMIS Status	Not considered to be hazardous material as defined by Canadian WHMIS Controlled Product Regulation (CPR). Falls under the definition of a "manufactured article".	
Risk Phrases	None.	
Safety Phrases	S2: Keep out of reach of children.	
OSHA HCS Compliance	SDS 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	SDS 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	SDS of the product is made following the Z400.1-1993 standards of the ANSI.	
<b>SECTION 16 – OTHER INFORMATION</b>		
Full Tex of R-phrases appearing in Section 2	R10 : Flammable R11 : Highly flammable R20/21 : Harmful by inhalation and in contact with skin R36 : Irritating to eyes R38 : Irritating to skin R66 : Repeated exposure may cause skin dryness or cracking R67 : Vapours may cause drowsiness and dizziness	
N/Av.=NOT AVAILBLE	N/L=NOT LISTED	
SDS Originally made by <b>Karl Pinard</b>	Revised by <b>Federico Segovia</b>	

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.

## THE GIANT PERMANENT MARKER PRODUCT LIST

<b>Product code</b>	<b>Product Description</b>
FM20104	Giant Permanent Blue Marker
FM20108	Giant Permanent Black Marker
FM20109	Giant Permanent Red Marker