

# CARMEL GROUP INC.

## SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Perma-Ink (Various Colors)		Revision date 10/23/17
Previous revision date 12/22/09	Product code FM20004 to FM20009 (See p.6)	Material use Versatile felt-tip marker with an angled chisel tip wide or narrow markings. Fast drying, smear and water resistant. Industrial strength ink.
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

Hazardous Ingredients	Risk phrases (Sect 16)	Note (Sect 15)	CAS #	Amount	Exposure Limits (ppm)				
					OSHA PEL-TWA	NIOSH REL-TWA	NIOSH REL-STEL	ACGIH TLV-TWA	ACGIH TLV-STEL
Ethanol	R11	1,2,3,4,5,6,7	64-17-5	18-32%	1000	1000	N/AV	1000	N/AV
Dyestuffs, Additive			Blend	15-30%					

### SECTION 3 – HAZARD IDENTIFICATION

#### Emergency Overview

May be irritating to respiratory tract, Skin and eyes. This product is not rapidly ignitable. USE ONLY WITH ADEQUATES VENTILATION. WASH AFTER HANDING.

<b>SKIN CONTACT</b>	This product may cause mild to moderate skin irritation.
<b>EYE CONTACT</b>	This product may cause mild to moderate eye irritation.
<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>	Chronic overexposure may result in liver abnormalities.
<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			
<b>SECTION 4 – FIRST AID MEASURES</b>			
<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		
<b>SECTION 5 – FIRE FIGHTING MEASURES</b>			
<b>Flash Point</b> 12.8°C / 55°F	<b>Flammable limits</b> LEL 3,3% UEL 19 %	<b>Auto ignition temperature</b> 689°C	
<b>Extinguishing Media</b>	Extinguish with a multipurpose firefighting CO <sub>2</sub> , water spray, dry powder or foam.		
<b>Special Firefighting 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.		
<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>			
<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		
<b>SECTION 7 – HANDLING AND STORAGE</b>			
<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.		
<b>SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION</b>			
<b>PERSONAL PROTECTION</b>			
<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>			
<b>Appearance</b> Marker with a valve	<b>Odor</b> Characteristic	<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> 0,825-0,870	<b>Evaporation rate (vs. Butyl Acetate)</b> <0.01 @ 25°C/77°F	<b>Solubility in water</b> Soluble
<b>Flash point</b> 12,8°C	<b>Partitioning coefficient</b> N/Av.	<b>Typical density (lbs/gal)</b> N/Dis.	<b>Percent volatiles</b> N/Dis.
<b>SECTION 10 – STABILITY AND REACTIVITY DATA</b>			
<b>Stability</b> Stable	Hazardous polymerization Will not occur.		
<b>Incompatibility</b>			

Normally a stable product. Decomposition products generated at high temperatures. Reacts strongly with oxidizers.

Hazardous decomposition products

Carbon monoxide can form on incomplete combustion.

### SECTION 11 – TOXICOLOGICAL INFORMATION

Carcinogenicity

Ethanol has been linked to cancer in humans but is not listed in NTP or IARC carcinogen list of product. However, the ethanol present in this product is unsuitable to drink.

Reproductive Effects

Ethanol has been linked to birth defects in humans when ingested. However, the ethanol present in this product is unsuitable to drink.

Irritancy of Material

Cause eye & skin irritation.

Sensitizing Capability

None known

Mutagenicity / Teratogenicity

Not listed

Synergistic Materials

None known

### SECTION 12 – ECOLOGICAL INFORMATION

Slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### SECTION 13 – DISPOSAL CONSIDERATION

Burn or bury in accordance with local regulations "special" waste empty containers are to be treated as hazardous and not to be reused.

### SECTION 14 – TRANSPORT INFORMATION

No data available.

### SECTION 15 – REGULATORY INFORMATION

No data available.

### SECTION 16 – OTHER INFORMATION

No data available.

N/Av.=NOT AVAILBLE

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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.

## PERMA-INK PRODUCTS

### **Product code**

FM20004

FM20008

FM20009

### **Product Description**

Perma-Ink Bleu

Perma-Ink Noir

Perma-Ink Red