

CARMEL GROUP INC.

SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Heat Treater Ballpoint Marker		Revision date 10/30/17
Previous revision date: 06/20/16	Product code: PM21802 to PM21808 (See P.5)	Material use: Marks with paint through a press activated ball point tip. Marks at ambient temperatures, can withstand heating up to 1600°F(871°C)
Manufacturer's Name and issuing location CARMEL GROUP INC. 10220 ARMAND LAVERGNE AVE. MONTRÉAL, QUE. H1H 3N4 PHONE : 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

Hazardous Ingredients	CAS#	Amount
Ethanol	64-17-5	05-20 %
Iso Propanol	67-63-0	05-20 %

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview

Flammable Liquid and Vapor. May be irritating to skin, respiratory tract and eyes. May be harmful if absorbed through the skin. May cause central nervous system effects.

SKIN CONTACT	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. This product contains hazardous component(s) which may be absorbed through the skin, causing blood, kidney, liver, and spleen damage.
EYE CONTACT	This product may cause mild to moderate eye irritation. Direct contact or excessive exposure to vapors may cause redness, tearing and stinging, blurred vision and eye damage.
INHALATION	Inhalation of excessive quantities of vapors may cause irritation of the nose, throat and respiratory tract, as well as headache, nausea, dizziness, vomiting, loss of coordination and fatigue.
INGESTION	Ingestion of this product may cause gastrointestinal irritation, headache, nausea, vomiting, diarrhea, dizziness, loss of coordination and fatigue.
CHRONIC EFFECTS	Chronic overexposure may result in liver, kidney, lung and central nervous system damage.

Medical Condition Aggravated by Exposure	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 : 2	Health Hazard: 2	Reactivity : 0	Personal Protection : See Section 8
0 = Minimal 1 = Slight hazard 2= Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard			
SECTION 4 – FIRST AID MEASURES			
EYE CONTACT	In case of direct contact, flush eyes with generous amounts of water for at least 15 minutes. Call a physician to attend to the injury if irritation or redness persists.		
SKIN CONTACT	Remove contaminated clothing. Wash affected area thoroughly with soap and water. Call a physician to attend to the injury if irritation or redness persists.		
INHALATION	Remove individual to a well ventilated area for fresh air. If breathing difficulties develop, oxygen should be administered by qualified personnel. Call a physician to attend to the injury.		
INGESTION	Ingestion is an unlikely route of exposure under normal industrial condition. If material is ingested, immediately call a physician.		
ADDITIONAL INFO			
SECTION 5 – FIRE FIGHTING MEASURES			
Flash Point 13-14 Degrees C	Flash Point Category (OSHA) IB - Flammable	Lower Flammability Limit in Air (% by Vol) 1.7	
Extinguishing Media	Extinguish with a multipurpose fire fighting CO ₂ , dry powder or foam.		
Special Fire fighting Procedure	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.		
Unusual Fire and Explosion Hazards	This product is (OSHA) flammable and may be ignited by heat, sparks, flame or static electricity if bottle 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			
Small Spills	Cover remaining spilled product with dry powder, dry sand, or Vermiculite. Eliminate all source of ignition & ventilate area of spill.		
Large Spills	Unlikely to occur in this format.		
SECTION 7 – HANDLING AND STORAGE			
Handling procedures	No open flames. No smoking. Use only non-sparking tools. Avoid all eyes and skin contact and do not breathe vapor and mist. Use only outdoors or in a well-ventilated area.		
Storage precautions	Normal precautions should be followed in handling and storage. Store in a cool and dry place. Keep out of strong sunlight. Do not store at temperature : > 122F/50C		
SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION			
PERSONAL PROTECTION			
Respiratory protection	None if product is properly used.		
Protective gloves	If marker is frequently used, wear rubber glove to prevent skin contact.		
Eye protection	None if product is properly used.		
Clothing	Normal working clothes.		
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
Appearance Plastic bottle containing different paint colors	Odor Solvent	Physical state of ink liquid @ 25C/77F	Boiling point 248F/120C
Melting point N / Av.	Specific gravity (H ₂ O=1) < 1	Evaporation rate Slower than Butyl Acetate	Solubility in water Insoluble
Vapor Density vs. Air Heavier	Partitioning coefficient N / Av.	Typical density (lbs/gal) N / Av.	Percent volatiles (w/w) 35-40 %

SECTION 10 – STABILITY AND REACTIVITY DATA			
Stability Stable	Hazardous polymerization Will not occur.		
Incompatibility Avoid contact with strong oxidizing agent (ex. Peroxides, chlorine), strong acids or bases, 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, oxides of nitrogen & other potentially toxic gases.			
SECTION 11 – TOXICOLOGICAL INFORMATION			
Carcinogenicity	Mutagenicity / Teratogenicity		
Irritancy of Material Cause eye & skin irritation.	Sensitizing Capability N / Av.		
Reproductive Effects None known	Synergistic Materials None known		
SECTION 12 – ECOLOGICAL INFORMATION			
Toxic to aquatic organism. Avoid contact with public sewer system.			
SECTION 13 – DISPOSAL CONSIDERATION			
Dispose of in accordance with appropriate Federal, State and local regulation.			
SECTION 14 – TRANSPORT INFORMATION			
Dot Classification N / Av.			
IMDG Classification N / Av.			
UN / NA Hazard No. N / Av.			
ICAO Classification N / Av.			
Other N / Av.			
SECTION 15 – REGULATORY INFORMATION			
SARA Status	This product also contains a chemical which is reportable under the requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.		
	Chemical / Category	CAS #	Concentration (wt%)

TSCA Status	This product also contains a chemical which is reportable under the export notification requirements of TSCA, Section 12(B).	
	Chemical / Category	CAS #
	Ethanol	64-17-5
	Iso Propanol	67-63-0
OSHA (Occupational Safety and Health Administration) Communication Label for Product	<p>WARNING!</p> <p>FLAMMABLE LIQUID AND VAPOR LIQUID MAY CAUSE SKIN AND EYE IRRITATION LIQUID MAY BE HARMFUL IF ABSORBED THROUGH SKIN VAPOR FROM LIQUID MAY CAUSE RESPIRATORY TRACT IRRITATION VAPOR FROM LIQUID MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS</p> <p>Please refer to the SDS for more details. Keep away from heat, sparks and flame. Use with adequate ventilation. Use appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapor. Wash thoroughly after handling. FIRST AID: In case of contact, flush eyes or skin with plenty of water. Remove contaminated clothing. Seek medical attention if irritation develops or persists. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention. IN CASE OF FIRE: Use a multipurpose firefighting foam, dry chemical or carbon dioxide. DO NOT REMOVE THIS LABEL.</p>	
EPCRA Status	N / Av.	
HAP Status	N / Av.	
WHMIS Status	Not a controlled material	
CPR Compliance	Not Known	
SECTION 16 – OTHER INFORMATION		
N / Av. = NOT AVAILABLE		
SDS Originally made by Karl Pinard	Revised by Federico Segovia	

The information contained in this document is derived from data supplied to Carmel Industries by the manufacturers or distributors of the raw materials combined to form this product. To the best of our knowledge all hazards have been noted for the intended use of the product and, since Carmel Industries cannot control conditions of use, the end user is obliged to determine the conditions permitting safe use of the product.

CARMEL GROUP INC.
**HEAT TREATER BALLPOINT
MARKER PRODUCTS**

Product code	Product Description
PM21802	Yellow Ballpoint Paint
PM21803	White Ballpoint Marker
PM21808	Black Ballpoint Marker