

CARMEL GROUP INC.

SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Scrub Off Marker (Various Colors)		Revision date Sept 12, 2017
Previous revision date June 07, 2016	Product code PM20402 to FM20410 (See p.5)	Material use Scrub off markers are used for marking non-porous surfaces.
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	NIOSH REL-TWA	NIOSH REL-STEL	ACGIH TLV-TWA	ACGIH TLV-STEL
Titanium Dioxide	R36/R38		n/a	<10					

SECTION 3 EMERGENCY OVERVIEW

Keep away from children. The product contains no substances which at their given concentration are considered to be hazardous to health

SKIN CONTACT	Generally the product does not irritate the skin.
EYE CONTACT	This product may cause irritation.
INHALATION	Non-hazardous in accordance with international standards for workplace safety.
INGESTION	May be harmful if swallowed. May cause eye irritation. (based on components)

CHRONIC EFFECTS	No further relevant information available.
Medical Condition Aggravated by Exposure	No further relevant information available.

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

SECTION 4 FIRST AID MEASURES	
EYE CONTACT	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/ attention.
SKIN CONTACT	Wash skin with soap and water. Get medical attention if irritation develops and persists.
INHALATION	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
INGESTION	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell
ADDITIONAL INFO	
SECTION 5 FIRE FIGHTING MEASURES	
Flash Point Category (OSHA) IB -	Non-combustible
Extinguishing Media	Extinguish with a multipurpose fire fighting CO ₂ , water spray, dry powder or foam.
Special Fire fighting Procedure	Since the product is non-combustible, there is no need of a special fire fighting procedure.
Unusual Fire and Explosion Hazards	No further relevant information available.
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. The product may be Already dry before powders are applied.
Large Spills	Unlikely to occur

SECTION 7 HANDLING AND STORAGE	
Handling procedures	None special needed. Don't break or burn the marker
Storage precautions	Normal precaution should be followed. Store in a dry & cool place, out of direct sunlight.
	Do not store at temperature >50°C/120°F.
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	Standard industrial.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance Marker with a valve	Odour Neutral	Physical state Liquid at 25°C/77°F	Boiling point 173°F/78°C
Melting point N/Av.	Specific gravity (H ₂ O=1) > 1	Evaporation rate (vs. Butyl Acetate) <0.01 at 25°C/77°F	Solubility in water soluble
Vapor Density vs. Air Heavier	Partitioning coefficient N/Av.	Typical density (lbs/gal) 7.69 to 9.64	Percent volatiles 10 to 20 %

SECTION 10 STABILITY AND REACTIVITY DATA

Stability Stable	Hazardous polymerization Will not occur.
Incompatibility Normally no-reactive; however avoid contact with strong oxidizing agent (ex. Peroxides, chlorine).	
Hazardous decomposition products Burning can produce noxious and toxic fumes, and the following combustion products: Oxides of carbon.	

SECTION 11 TOXICOLOGICAL INFORMATION

Irritancy of Material Cause eye & skin irritation.	Sensitizing Capability None known
Mutagenicity / Teratogenicity Not listed	Synergistic Materials None known

Acute Toxicity Data

Ingredient	CAS#	LD ₅₀ Oral (mg/kg)	LD ₅₀ Dermal (mg/kg)	LC ₅₀ Inhalation (4 hrs.)
Titanium Dioxide	13463-67-7	7500(rat)	50 (rat)	N/Av

SECTION 12 ECOLOGICAL INFORMATION

In the environment, the active ingredient in this formulation is expected to remain in water or migrate through the soil to groundwater . Harmful effects to aquatic organisms could occur.

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with appropriate Federal, State and local regulation.
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SECTION 14 TRANSPORT INFORMATION

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.
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SECTION 15 REGULATORY INFORMATION

EU Indication of danger:	Not classified
Canada - WHMIS: Classifications	None required This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.
SARA Hazard Cat.	Acute Health Hazard, Not flammable

TSCA Status	All ingredients of this product are listed on the U.S. EPA TSCA (Toxic Substances Control Act) Chemical Substance Inventory.
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).
Risk Phrases	None.
Safety Phrases	S2: Keep out of reach of children.
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.

SECTION 16 OTHER INFORMATION	
Full Text of R-phrases appearing in Section 2	R36: Irritating to eyes R38: Irritating to skin
N/Av.=NOT AVAILBLE	N/L=NOT LISTED
MSDS originally made by Federico Segovia	Revised by

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.

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SAFETY DATA SHEET

Product Description

PM20402	Yellow Ink Scrub off Marker
PM20403	White Ink Scrub off Marker
PM20404	Blue Ink Scrub off Marker
PM20408	Black Ink Scrub off Marker
PM20409	Red Ink Scrub off Marker
PM20410	Green Ink Scrub off Marker