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Material Safety Data Sheet

Version: 2.4
Revision Date: July 14 - 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	CPMC-001
Product Names:	CaraPro™ Clear-Single-Coat Masonry & Concrete Sealer; CaraPro™ Single-Coat-Sealer Masonry & Concrete Stain [Light Grey, Grey, Tan, Black]
Brand:	Integricote
Supplier:	Integricote Energy Research Park, 5000 Gulf Freeway, Building 7, Suite 100, Houston, TX 77023, USA
Recommended Uses / Restrictions on Use:	New and/or Resurfaced Compatible Masonry and Concrete
Telephone:	+1 888-790-2468
Emergency Phone: CHEMTEL -	Domestic: 1-800-255-3924 International: +1 (813) 248-0585

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER! POISON! (CONTAINS METHANOL)

Highly flammable liquid and vapor. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

For Exterior Use Only. Use only with adequate ventilation. To avoid overexposure; if treating enclosed exterior rooms or porches, open windows and doors or use other means to ensure fresh air during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (NIOSH approved) or leave the area. Wear protective gloves/ protective clothing. Avoid contact with eyes and skin. Cause eye, skin and respiratory tract irritation. Cause damage to organs. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

OSHA Hazards

Flammable Liquid, Target Organ Effect, Toxic by Inhalation, Toxic by Ingestion, Toxic by Skin Absorption.

Target Organs

Eyes, Kidney, Liver, Heart, Central Nervous System

GHS Classification

Flammable Liquids (Category 2)

Acute Toxicity, Oral (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Dermal (Category 3)
Specific Target Organ Toxicity - Single Exposure (Category 1)

GHS Label Elements (Including Precautionary Statements)

Signal Word	Danger

Hazard Statements

H225	Highly flammable liquid and vapor.
H301 + H311 + H331	Toxic if swallowed, in contact with skin, or if inhaled.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust / fume / gas / mist / vapors / spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403	Store in a well-ventilated place.
P405	Store locked up.
P501	Dispose of contents/ container in accordance with local/regional/national/international regulations.

Additional Precautionary Statements

Wash exposed areas thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink, or smoke while using this product. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Take off immediately all contaminated clothing and wash it before reuse. Rinse mouth. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see FIRST AID MEASURES on the SDS). In case of fire: Use water spray, alcohol-resistant foam, dry-chemical or carbon dioxide to extinguish. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Classification

Health Hazard: 2
Chronic Health Hazard: *
Flammability: 3
Physical Hazards: 0

NFPA Rating

Health Hazard: 2
Fire: 3
Reactivity Hazard: 0

Hazards Not Otherwise Classified

May cause corneal damage following prolonged contact with the eye(s).

Percentage of Ingredients with Unknown Toxicity

Total Percentage: < 60%

Potential Health Effects

Inhalation: Toxic if inhaled. Causes respiratory tract irritation.
Skin: Toxic if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Classification	Concentration (v./v.)
Methanol		
CAS-No. 67-56-1 EC-No. 200-659-6 Index-No. 603-001-00-X	Flam. Liq. 2; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2	1 - 50%
Ethanol		
CAS-No. 64-17-5 EC-No. 200-578-6 Index-No. 603-002-00-5	Flam. Liq. 2; Eye Irrit. 2A; Carc. 1A	1 – 50%
Acetone		
CAS-No. 67-64-1 EC-No. 200-662-2 Index-No. 606-001-00-8	Flam. Liq. 2; Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2	1 – 45%
Proprietary Substance(s)		
N/A	N/A	5 – 60%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. The specific chemical identities and percentages of concentration have been withheld as trade secrets.

4. FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Swallowed

Call Poison Control Center, hospital emergency room, or physician immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If Inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In Case of Skin Contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In Case of Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Most Important Symptoms (Acute and Delayed)

Upon excessive exposure (inhalation, dermal contact, contact with eyes, ingestion), acute/delayed symptoms may include but are not limited to dizziness, nausea, fatigue, blurred vision, loss of motor skills, confusion, impaired judgement, and other common symptoms of inebriation typically associated with exposure to ethyl alcohol. Any individual exhibiting signs of these symptoms should seek immediate medical attention in accordance with the guidelines presented in Section 2 (HAZARDS IDENTIFICATION) and Section 4 (FIRST AID MEASURES) of this document.

Immediate Medical Attention Required

IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
IF exposed: Call a POISON CENTER or doctor/ physician

Refer to Section 2 (HAZARDS IDENTIFICATION) and Section 4 (FIRST AID MEASURES) of this document for additional information.

5. FIREFIGHTING MEASURES

Conditions of Flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous Combustion Products

Hazardous decomposition products formed under fire conditions. – Carbon oxides.

Further Information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and Materials for Containment and Cleaning Up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge.

Conditions for Safe Storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with Workplace Control Parameters

Components	CAS-No.	Value	Control Parameters	Basis
Methanol	67-56-1	TWA	200 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Headache Eye damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption			
		STEL	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Headache Eye Damage Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Danger of cutaneous absorption			
		TWA	200 ppm 260 mg/m^3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
	Skin Notation			
		STEL	250 ppm 325 mg/m^3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
	Skin Notation			
		TWA	200 ppm 260 mg/m^3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	200 ppm 260 mg/m^3	USA. NIOSH Recommended Exposure Limits
	Potential for Dermal Absorption			
		ST	250 ppm 325 mg/m^3	USA. NIOSH Recommended Exposure Limits
	Potential for Dermal Absorption			
Ethanol	64-17-5	TWA	1000 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans			

		TWA	1,000 ppm 1,900 mg/m^3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	1,000 ppm 1,900 mg/m^3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
	The value in mg/m^3 is approximate.			
		TWA	1,000ppm 1,900mg/m^3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
	The value in mg/m^3 is approximate.			
		TWA	1,000ppm 1,900mg/m^3	USA. NIOSH Recommended Exposure Limits
		STEL	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
			Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans	
Acetone	67-64-1	TWA	500 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Central Nervous System impairment Hematologic effects Upper Respiratory Tract irritation Eye irritation. Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen			
		TWA	250 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen			
		STEL	750 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Central Nervous System impairment Hematologic effects Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen			
		STEL	500 ppm	
	Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation 2015 Adoption Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen			
		TWA	1,000ppm 2,400 mg/m^3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
	The value in mg/m^3 is approximate.			
		TWA	250 ppm 590 mg/m^3	USA. NIOSH Recommended Exposure Limits
Proprietary Substance(s)		TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Eye & Upper Respiratory Tract Irritation Kidney Damage			
		TWA	10 ppm 85 mg/m^3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	100 ppm 850 mg/m^3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 85 mg/m^3	USA. NIOSH Recommended Exposure Limits
	The value in mg/m^3 is approximate.			

Appropriate Engineering Controls

To eliminate or reduce exposure to potential chemical and/or physical hazards while using this material, do NOT use/handle/store/transport/dispose/transfer material in any other way other than as specified in either this document or the corresponding Technical Data Sheet for CaraPro™ Wood Sealer. Always use non-sparking materials when using/handling/storing/transporting/disposing/transferring material. Always store material in a tightly-sealed appropriate/approved storage vessel and properly stowed away in an approved fire-/flame-resistant storage area.

Personal Protective Equipment

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye Protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Body Protection

Complete suit protecting against chemicals, flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Color	Colorless

Safety Data

pH	5-8
Melting Point/Freezing Point	No Data Available
Boiling Point	≥ 65º C (148.5º F)
Flash Point	No Data Available
Ignition Temperature	≥ 455º C (851º F)
Decomposition Temperature	No Data Available
Auto-Ignition Temperature	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Vapor Pressure	No Data Available
Density	0.86 – 0.89 g/mL @ 25º C (77º F)
Viscosity	0.97 – 0.99 mPa·s @ 25º C (77º F)
Water Solubility	No Data Available
Partition Coefficient	No Data Available
n-octanol/water	No Data Available

Relative Vapor Density	No Data Available
Odor	Pungent
Odor Threshold	No Data Available
Evaporation Rate	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Reactivity

Flammable	May explode when exposed to flame.
Stability	Stable material.
Hazardous Polymerization	Will not occur.

Possibility of Hazardous Reactions

Vapors may form explosive mixture with air.

Conditions to Avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to Avoid

Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids.

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity Estimate (ATE)

ATE US (Oral)

161 mg/kg body weight

ATE US (Dermal)

484 mg/kg body weight

ATE US (Vapors)

5 mg/l/4h

Skin Corrosion/Irritation

Causes skin irritation

Serious Eye Damage/Eye Irritation

Causes serious eye irritation

Respiratory or Skin Sensitization

Not classified

Germ Cell Mutagenicity

Genotoxicity in vitro - Ames test - S. typhimurium - with and without metabolic activation – negative
Genotoxicity in vitro - in vitro assay - fibroblast - negative
Mutation in mammalian somatic cells
Genotoxicity in vivo - mouse - male and female - Intraperitoneal – negative
In vivo studies have shown that repeated exposure to this material, even at otherwise toxic doses, does not cause any mutagenic events.
No tumerogenic response to the chronic recurrent application of the material to the skin of mice was observed.

Carcinogenicity

Not classified

Reproductive Toxicity

Not classified

Teratogenicity

Not classified

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System)

Not classified

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System)

Not classified

Aspiration Hazard

Not classified

Potential Health Effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Ingestion	Toxic if swallowed.
Skin	Toxic if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

Methanol may be fatal or cause blindness if swallowed. Effects due to ingestion may include: Headache, Dizziness, Drowsiness, Metabolic Acidosis, Coma, and Seizure. Symptoms May Be Delayed. Damage of the: Liver, Kidney, Eyes. Oral toxicity is associated with methanol, which causes nausea, vomiting, headache, visual effects including blindness. Onset of symptoms may be delayed up to 48 hours.

12. ECOLOGICAL INFORMATION

Toxicity (Methanol)

Toxicity to Fish	LC50 (Mortality) - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h NOEC - Oryzias latipes - 7,900 mg/l - 200 h
Toxicity to Daphnia and Other Aquatic Invertebrates	EC50 - Daphnia magna (Water flea) - > 10,000.00 mg/l - 48 h

Toxicity to Algae	EC50 (Growth Inhibition) - Scenedesmus capricornutum (fresh water algae) - 22,000.0 mg/l - 96 h

Persistence and Degradability

No additional information available

Bioaccumulative Potential

Bioaccumulation	Cyprinus carpio (Carp) - 72 d at 20 °C Bioconcentration factor (BCF): 1.0

Mobility in Soil

No additional information available

Other Adverse Effects

Effect on Ozone Layer	No additional information available
Effect on Global Warming	No additional information available
Additional Ecological Information	Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN Number: 1986

Class: 3

Packing Group: II

Proper shipping name: ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (METHANOL), 3, II

15. REGULATORY INFORMATION

United States Inventory (TSCA 8b)

All components are listed or exempted.

OSHA Hazards

Flammable and Combustible liquid, Target Organ Effect, Toxic by inhalation, Toxic by ingestion, Toxic by skin absorption.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right-to-Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

Pennsylvania Right-to-Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

New Jersey Right-to-Know Components

	CAS-No.	Revision Date
Methanol	67-56-1	2007-07-01

California Prop. 65 Components

This product contains a chemical (Ethanol (64-17-5)) known to the State of California to cause cancer, birth defects, reproductive harm, or developmental toxicity.

16. OTHER INFORMATION

Additional Information

 This material safety data sheet was last modified on July 14 2016. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Integricote, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.integricote.com for additional terms and conditions of sale.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Integricote, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

END OF SAFETY DATA SHEET