CAFCO TOP-COTE® White
SAFETY DATA SHEET

Issuing Date 06-Jan-2015 **Revision Date** 21-Sep-2018 **Revision Number** 5

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier
Product Name **CAFCO TOP-COTE® White**

Other means of identification
Product Code(s) BW104801
Document TOP-COTE® White

None
Water based coating. FOR INDUSTRIAL USE ONLY.
Restrictions on use: Do not use this product for any use other than intended

Manufacturer Address
Key Polymer Corporation
17 Shepard Street
Lawrence, MA 01843, USA
978-683-9411 (8AM - 5PM EST) (M-F)

Supplier Address:
Isolatek International
41 Furnace Street
Stanhope NJ 07874
973-945-1200

Company Phone Number Toll Free 1-800-631-9600
Emergency Telephone Chemtrec 1-800-424-9300 (24 Hours)

2. Hazards Identification

Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS).

Skin sensitization	Category 1

Emergency Overview

WARNING

Hazard statements
May cause an allergic skin reaction

Appearance Opaque White **Physical state** Liquid **Odor** Mild acrylic odor.

Precautionary Statements - Prevention
Avoid breathing dust, fumes, or vapors
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves

Precautionary Statements - Response
Get medical advice/attention if you feel unwell
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse

Precautionary Statements - Storage
Keep from freezing
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container in accordance with local/regional/international regulations

Hazards Not Otherwise Classified (HNOC)

Other Information

Very toxic to aquatic life with long lasting effects, Toxic to aquatic life
95.53538319% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/Information on Ingredients

Substance

Chemical Family Water Based Coating
Chemical nature Aqueous solution of a polymer.

Chemical name	CAS No.	Weight-%	Trade secret
Calcium carbonate	1317-65-3	20 - 40	*
Proprietary flame retardant	Proprietary	5 - 10	*
Titanium dioxide	13463-67-7	1 - 3	*
Silicon dioxide	14808-60-7	0.1 - 0.5	*
Proprietary acrylic	Proprietary	0.1 - 0.5	*
Glyoxal	107-22-2	0.1 - 0.5	*

Calcium carbonate, when encapsulated in a polymer, is not expected to pose a respirable health hazard when processed under normal conditions of use.
* The exact percentage (concentration) of composition may have been withheld as a trade secret.

4. First Aid Measures

Description of first aid measures

General advice Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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 off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Remove to fresh air.

Cafco Brand

Ingestion Treat symptomatically. Get medical attention.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials. Material can cause pulmonary edema which can be delayed several hours.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-Fighting Measures

Suitable Extinguishing Media
Dry chemical, CO2, water spray or regular foam

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
Keep cool with water. Sealed container may rupture.

Hazardous combustion products Irritating or toxic substances may be emitted upon burning, combustion or decomposition. See Section 10 Hazardous Decomposition Products for additional information.

Explosion data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters
Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation, especially in confined areas.

Other Information Use personal protective equipment as required. Extremely slippery when spilled.

For Emergency Responders Use personal protective equipment as required.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information. Do not allow into any sewer, on the ground or into any body of water.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep from freezing. Keep containers tightly closed in a dry, cool and well-ventilated place. Minimize contact with air to reduce contamination with mold, fungus or other organisms which could cause decomposition or spoilage.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

8. Exposure Controls/Personal Protection

Control parameters

Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium carbonate 1317-65-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Proprietary flame retardant	TWA: 1 mg/m³ respirable particulate matter	-	-
Titanium dioxide 13463-67-7	TWA: 10 mg/m³	TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust	IDLH: 5000 mg/m³ TWA: 2.4 mg/m³ CIB 63 fine TWA: 0.3 mg/m³ CIB 63 ultrafine, including engineered nanoscale
Silicon dioxide 14808-60-7	TWA: 0.025 mg/m³ respirable particulate matter	TWA: 50 µg/m³ TWA: 50 µg/m³ excludes construction work, agricultural operations, and exposures that result from the processing of sorptive clays (vacated) TWA: 0.1 mg/m³ respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust
Glyoxal 107-22-2	TWA: 0.1 mg/m³ inhalable fraction and vapor	-	-

Other Information This product contains formaldehyde in de minimis quantities, not required for listing in section 3. The OSHA PEL TWA is 0.75 ppm and ACGIH TLV TWA is 0.3 ppm.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Use personal protective equipment as required.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Opaque	**Odor**	Mild acrylic odor.
Color	White	**Odor threshold**	N/A

Property	**Values**	**Remarks • Method**
pH	7.9	
Melting point / freezing point	0 °C	
Boiling point / boiling range	> 100 °C	
Flash point	> 100 °C	CC (closed cup)
Evaporation rate	Slower than n-butyl acetate	
Flammability (solid, gas)	N/A	
Flammability Limit in Air		
Upper flammability limit:	N/A	
Lower flammability limit:	N/A	
Vapor pressure	~18 mmHg @20°C	
Vapor density	Lighter than air	
Relative density	1.38	
Water solubility	Dispersible	
Solubility in other solvents	N/A	
Partition coefficient	N/A	
Autoignition temperature	N/A	
Decomposition temperature	N/A	
Kinematic viscosity	N/A	
Dynamic viscosity	N/A	
Explosive properties	Not an explosive	
Oxidizing properties	N/A	

Other Information

Softening point	N/A
Molecular weight	N/A
VOC Content (%)	N/A
Liquid Density	11.4 pounds/gallon
Bulk density	N/A

10. Stability and Reactivity

Reactivity

No data available

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid
Keep out of reach of children. Incompatible materials. Freezing temperatures.

Incompatible materials
Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products
Carbon monoxide. Carbon Dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride. Hydrocarbons. May emit toxic fumes under fire conditions. Aldehydes. Organic Compounds.

11. Toxicological Information

Information on likely routes of exposure

Product Information The product has not been tested

Inhalation May cause irritation of respiratory tract.

Eye contact May cause slight irritation. Vapor may cause irritation.

Skin contact PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. May cause sensitization by skin contact.

Ingestion Not an expected route of exposure. Ingestion of this material may cause gastrointestinal irritation.

Chemical name	ATEmix (oral)	ATEmix (dermal)	Inhalation LC50
Proprietary flame retardant	> 5000 mg/kg (Rat)	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)	-	-
Proprietary acrylic	= 2220 mg/kg (Rat)	> 740 mg/kg (Rabbit)	-
Glyoxal 107-22-2	= 200 mg/kg (Rat)	= 12700 mg/kg (Rabbit)	= 2.44 mg/L (Rat) 4 h

Information on toxicological effects

See Section 11: TOXICOLOGICAL INFORMATION.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Repeated or prolonged contact may cause skin irritation and dermatitis.
Serious eye damage/eye irritation Irritating to eyes.
Irritation May cause skin and eye irritation.
Corrosivity None.
Sensitization Repeated or prolonged contact may cause allergic reactions in very susceptible persons.
Germ cell mutagenicity N/A.
Carcinogenicity Silicon Dioxide (CAS 14808-60-7) is a naturally occurring substance that poses low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding finished product, wear appropriate personal protective equipment for respirable dust hazards. Titanium Dioxide (CAS 13463-67-7) is a naturally occurring substance that poses very low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding finished product, wear appropriate personal protective equipment for respirable dust hazards.

Chemical name	ACGIH	IARC	NTP	OSHA
Titanium dioxide 13463-67-7		Group 2B		X
Silicon dioxide 14808-60-7	A2	Group 1	Known	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
NTP (National Toxicology Program)

Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity N/A.
STOT - single exposure N/A.
STOT - repeated exposure N/A.
Other adverse effects If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Based on data from similar materials. Material can cause pulmonary edema which can be delayed for several hours.
Aspiration hazard N/A.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 95.53538319% of the mixture consists of ingredient(s) of unknown toxicity
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) 8,947.90 mg/kg
ATEmix (dermal) 63,753.20 mg/kg mg/l

12. Ecological Information

Ecotoxicity

Very toxic to aquatic life with long lasting effects
0.00062 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Proprietary acrylic		12.2: 96 h Brachydanio rerio mg/L LC50 semi-static 1.0 - 10.0: 96 h Brachydanio rerio mg/L LC50 static	
Glyoxal 107-22-2	500: 72 h Desmodesmus subspicatus mg/L EC50 348.59: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 500: 96 h Desmodesmus subspicatus mg/L EC50	215: 96 h Pimephales promelas mg/L LC50 static 460 - 680: 96 h Leuciscus idus mg/L LC50 static	404: 48 h Daphnia magna mg/L EC50

Persistence and degradability
N/A

Chemical name	Partition coefficient
Glyoxal 107-22-2	-0.85

Other adverse effects
N/A

13. Disposal Considerations

Waste treatment methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. Transport Information

Note: PROTECT FROM FREEZE

DOT Not regulated

ICAO (air) Not regulated

IATA Not regulated

IMDG Not regulated

15. Regulatory Information

International Inventories

TSCA All components of this product are either exempt or included on the TSCA Inventory in compliance with the Toxic Substances Control Act.

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*
DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

The following chemicals may be contained in this product in de minimis amounts not required for listing in section 3. However, these chemicals do appear on some state Right-to-Know (RTK) and/or other hazardous substance lists. Please check your state's listings for more information.

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen
Silicon dioxide - 14808-60-7	Carcinogen
formaldehyde - 50-00-0	Carcinogen
Vinyl Chloride - 75-01-4	Carcinogen
Propylene oxide - 75-56-9	Carcinogen
1,4-Dioxane - 123-91-1	Carcinogen
Acetaldehyde - 75-07-0	Carcinogen
Ethylene Oxide - 75-21-8	Carcinogen Developmental Female Reproductive

Cafco Brand

	Male Reproductive

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Calcium carbonate 1317-65-3	X	X	X
Titanium dioxide 13463-67-7	X	X	X
Silicon dioxide 14808-60-7	X	X	X
Glyoxal 107-22-2	X		

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other Information

NFPA	**Health hazards** 1	**Flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health hazards** 1	**Flammability** 1	**Physical hazards** 0	**Personal Protection** X

Prepared By Key Polymer Corp Compliance
Issuing Date 06-Jan-2015
Revision Date 21-Sep-2018

Revision Note

N/A

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Cafco Brand