



AlphaGuard MT Top Coat 5 Gal/AlphaGuard MT Top Coat 5 Gal

Version 4.0

Print Date 05/15/2013

REVISION DATE: 07/08/2012

SECTION 1 - PRODUCT IDENTIFICATION

Trade name : AlphaGuard MT Top Coat 5 Gal/AlphaGuard MT Top Coat 5 Gal
 Product code : 351610 805

COMPANY : Tremco Incorporated
 3735 Green Road
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST
 Emergency Phone: : (216) 765-6727 8:30 - 5:00 EST
 After Hours: Chemtrec 1-800-424-9300

Product use : Coating

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SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

White. Liquid. May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. May cause allergic respiratory sensitization. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause drowsiness, weakness, and fatigue. Vapor and/or mist may irritate nose and throat. May cause moderate irritation to the respiratory system. May cause allergic respiratory sensitization.

Eyes : Vapor and/or mist may cause eye irritation.

Ingestion : May cause irritation to the mouth, throat and stomach. May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Repeated overexposure to vapors and/or material may injure the liver, kidneys and respiratory system unless suitable engineering controls and/or personal protective equipment are used. Overexposure to sublimed zinc oxide may produce symptoms known as "zinc oxide chills" which have no recognized complications. Symptoms usually disappear within 24 hours. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Eye, Lung, Liver, Kidney, Skin, Nerve

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJ TSRN# 51721300-6365P	30.0 - 60.0
Aliphatic Amine	NJ TSRN# 51721300-5029P	10.0 - 30.0
Fire retardant	NJ TSRN# 51721300-5035P	7.0 - 13.0

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Propylene carbonate	108-32-7	7.0 - 13.0
Titanium dioxide	13463-67-7	7.0 - 13.0
Calcium carbonate	471-34-1	7.0 - 13.0
Additive (non-hazardous)	NJ TSRN# 51721300-5878P	3.0 - 7.0
Polyvinyl chloride	9002-86-2	3.0 - 7.0
Isophorone Diisocyanate	4098-71-9	1.0 - 5.0
Zinc oxide	1314-13-2	1.0 - 5.0
Aluminum oxide	1344-28-1	0.1 - 1.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

- Inhalation : Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

- Flash point : > 200 °F, > 93 °C
- Method : Not available.
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Smoke, fumes. Hydrocyanic acid and nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : Closed container, may burst when exposed to extreme heat. This product not expected to ignite under normal conditions of use.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Stop flow. Contain spill. Keep out of water courses. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Change soiled work clothes frequently. Clean hands thoroughly after handling. Store under normal warehouse conditions in sealed containers.



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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

- Respiratory protection : Use full engineering controls before relying on personal protective equipment. Wear appropriate, properly fitted air purifying respirator with combination particulate filter and vapor/gas removing cartridge when airborne contaminant level(s) exceed exposure limits indicated on the MSDS, or product is spray applied.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Fire retardant	NJ TSRN# 51721300-5035P	ACGIH TWA:	1 mg/m3	Respirable fraction.
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Polyvinyl chloride	9002-86-2	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	1 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Respirable fraction. Total dust. Respirable fraction. Total dust.
Isophorone Diisocyanate	4098-71-9	ACGIH TWA:	0.005 ppm	
Zinc oxide	1314-13-2	ACGIH TWA: ACGIH STEL: OSHA PEL: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 10 mg/m3 5 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable fraction. Fume. Respirable fraction. Total dust. Total dust. Respirable fraction.

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Chemical Name	CAS Number	Regulation	Limit	Form
Aluminum oxide	1344-28-1	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3 1 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction.
Fire retardant	NJ TSRN# 51721300-5035P	ACGIH TWA:	1 mg/m3	Respirable fraction.
Titanium dioxide	13463-67-7	ACGIH TWA: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Total dust. Total dust. Respirable fraction.
Polyvinyl chloride	9002-86-2	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	1 mg/m3 5 mg/m3 15 mg/m3 5 mg/m3 15 mg/m3	Respirable fraction. Respirable fraction. Total dust. Respirable fraction. Total dust.
Isophorone Diisocyanate	4098-71-9	ACGIH TWA:	0.005 ppm	
Zinc oxide	1314-13-2	ACGIH TWA: ACGIH STEL: OSHA PEL: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	2 mg/m3 10 mg/m3 5 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Respirable fraction. Fume. Respirable fraction. Total dust. Total dust. Respirable fraction.
Aluminum oxide	1344-28-1	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA: ACGIH TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3 1 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction. Respirable fraction.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	: Liquid
Color	: White
Odor	: Aliphatic Solvent
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: Not available.



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Water solubility : Negligible
 Specific Gravity : 1.33
 % Volatile Weight : 11 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid : Strong acids.Strong bases.Amines.Water or moisture.Alcohols.
 Stability : Material is stable under normal storage, handling, and use.
 Hazardous polymerization : Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Aluminum hydroxide, CAS-No.: 21645-51-2
 Acute oral toxicity (LD-50 oral) 5,000 mg/kg (Rat)
 Calcium carbonate, CAS-No.: 471-34-1
 Acute oral toxicity (LD-50 oral) 6,450 mg/kg (Rat)
 Isophorone Diisocyanate, CAS-No.: 4098-71-9
 Acute oral toxicity (LD-50 oral) 2,500 mg/kg (Mouse) 1,000 mg/kg (Rat)
 Acute inhalation toxicity (LC-50) 0.033 mg/l for 4 h (Rat) 0.123 mg/l for 4 h (Rat)
 Acute dermal toxicity (LD-50 dermal) 1,060 mg/kg (Rat)
 Zinc oxide, CAS-No.: 1314-13-2
 Acute oral toxicity (LD-50 oral) 7,950 mg/kg (Mouse) 7,950 mg/kg (Mouse)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

Not Regulated

TDG:

Not Regulated

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IMDG:

Not Regulated

SECTION 15 - REGULATORY INFORMATION**North American Inventories:**

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components	:	Isophorone Diisocyanate	4098-71-9
		Zinc oxide	1314-13-2

SARA 311/312 Hazards	:	Acute Health Hazard
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OSHA Hazardous Components :

Fire retardant		NJ TSRN# 51721300-5035P
Titanium dioxide		13463-67-7
Polyvinyl chloride		9002-86-2
Isophorone Diisocyanate		4098-71-9
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Aluminum oxide		1344-28-1

OSHA Status: Considered hazardous based on the following criteria:	:	Irritant
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OSHA Flammability	:	Not Regulated
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Regulatory VOC (less water and exempt solvent)	:	40 g/l
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VOC Method 310	:	2 %
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U.S. State Regulations:

MASS RTK Components	:	Titanium dioxide	13463-67-7
		Calcium carbonate	471-34-1
		isophorone Diisocyanate	4098-71-9
		Zinc oxide	1314-13-2

Penn RTK Components	:	Polyurethane Polymer	NJ TSRN# 51721300-6365P
		Aliphatic Amine	NJ TSRN# 51721300-5029P
		Fire retardant	NJ TSRN# 51721300-5035P
		Propylene carbonate	108-32-7
		Titanium dioxide	13463-67-7



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Polyvinyl chloride	9002-86-2
Isophorone Diisocyanate	4098-71-9
Zinc oxide	1314-13-2

NJ RTK Components :	Polyurethane Polymer	NJ TSRN# 51721300-6365P
	Aliphatic Amine	NJ TSRN# 51721300-5029P
	Fire retardant	NJ TSRN# 51721300-5035P
	Propylene carbonate	108-32-7
	Titanium dioxide	13463-67-7
	Polyvinyl chloride	9002-86-2
	Isophorone Diisocyanate	4098-71-9
Zinc oxide	1314-13-2	

Components under California Proposition 65:
None known.

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	1
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists
 CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
 DOT - Department of Transportation
 DSL - Domestic Substance List
 EPA - Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency for Research on Cancer
 MSHA - Mine Safety Health Administration
 NDSL - Non-Domestic Substance List
 NIOSH - National Institute for Occupational Safety and Health
 NTP - National Toxicology Program
 OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit
 RCRA - Resource Conservation and Recovery Act
 RTK - Right To Know
 SARA - Superfund Amendments and Reauthorization Act
 STEL - Short Term Exposure Limit
 TLV - Threshold Limit Value
 TSCA - Toxic Substances Control Act
 TWA - Time Weighted Average
 V - Volume
 VOC - Volatile Organic Compound
 WHMIS - Workplace Hazardous Materials Information System