

MATERIAL SAFETY DATA SHEET

Safe-T-Plex 3640 Elastomeric Roof Coating

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Safe-T-Plex 3640 Elastomeric Roof Coating

Product Number: SFTP.189.3640, SFTP.50GW.3640

Product Use: Protective Roof Coating for Asphaltic Surfaces

Manufacturer: Polycoatings International Div. Of Realsit Corporation
324 Saunders Road, Unit 7 & 8, Barrie, Ontario, Canada L4N 9Y2

Phone Number: (877) 434-1658

Emergency Phone: Canutec (613) 996-6666
Chemtrec (800) 424-9300

Date of Preparation: January 12, 2009

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION! Direct skin and eye contact may cause irritation. Ingestion may cause gastric distress. Inhalation may cause irritation to the respiratory tract.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, inhalation, ingestion

Eye: May cause eye irritation (burning, tearing, redness or swelling).

Skin: None expected, however, prolonged contact may cause irritation.

Ingestion: May cause liver and kidney damage. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea.

Inhalation: None expected, however certain individuals may experience minor nausea or headaches.

Chronic Effects: This product or one of its ingredients present at 0.1% or more is listed as a carcinogen by NTP, IARC or OSHA. See Section 11 (Toxicological Information) for more details.

Signs and Symptoms: Symptoms may include minor nausea of headache, redness of the eye and skin.

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Medical Conditions Aggravated By Exposure: Allergies

Target Organs: Skin, eyes

Potential Environmental Effects: None known

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	WT. %
Calcium Carbonate	1317-65-3	9
Titanium Dioxide	14808-60-7	3 - 7
Zinc Oxide	1314-13-2	1 - 5
Acrylic Polymer	Proprietary	40 - 55

Section 4: FIRST AID MEASURES

Eye Contact: In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin Contact: Remove contaminated clothing and shoes. Wash affected areas with soap and water.

Inhalation: Remove the person from the contaminated area to fresh air. If breathing is difficult, give oxygen. Contact a physician if symptoms develop.

Ingestion: Get medical attention immediately. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious victim.

General Advice:

Note to Physicians:

Section 5: FIRE FIGHTING MEASURES

Flammability: Product is not considered flammable or combustible.

Means of Extinction:

Suitable Extinguishing Media: Carbon dioxide, water, water fog, dry chemical, chemical foam.

Unsuitable Extinguishing Media: None known

Products of Combustion: Products of combustion include compounds of carbon, hydrogen, oxygen, aluminum and zinc, including carbon monoxide.

Explosion Data: Not applicable

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Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Protection of Firefighters: Keep containers cool with water spray to prevent container rupture due to steam build-up; floor will become slippery if material is released. Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Environmental Precautions:

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations.

Methods for Clean-Up: Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Collect and dispose in accordance with applicable regulations.

Other Information:

Section 7: HANDLING & STORAGE

Handling: Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Protect from physical damage. Protect from extreme temperatures. Keep out of reach of children.

Storage: Keep containers tightly closed. Store in a cool, dry, well-ventilated area. Protect from physical damage. Protect from extreme temperatures. Keep out of reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

Ingredient	Exposure Limits ACGIH-TLV
Calcium Carbonate	Inhalable dust 10 mg/m ³
Titanium Dioxide	10 mg/m ³ (respirable)
Zinc Oxide	10 mg/m ³ (respirable)

Engineering Controls: Use with adequate general and local exhaust ventilation. When used outdoors, stay well away from building air intakes or close and seal the intakes to prevent product from entering building.

Personal Protective Equipment:

Eye/Face Protection: Safety glasses with side shields or goggles recommended.

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Hand Protection: Use with chemical-protective gloves to prevent skin contact

Skin and Body Protection: Use with chemical-protective gloves to prevent skin contact

Respiratory Protection: This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. The level of respiratory protection needed should be based on the evaluation of chemical exposures by a health or safety professional. If required, use a NIOSH-approved air purifying respirator with organic vapour cartridge and particulate filter or supplied air respirator. Respirator use may be required due to secondary operations such as mixing, spraying, sanding, buffing, etc.

General Hygiene Considerations:

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Creamy liquid

Colour: White

Odour: Paint-like odour

Odour Threshold: Not available

Physical State: Liquid

pH: 8.0 – 9.0

Viscosity: 12,000 to 18,000 cP

Freezing Point: -1°C (30.2°F)

Boiling Point: 100°C (212°F)

Flash Point: 100°C (212°F)

Evaporation Rate: <1

Lower Flammability Limit: Not available

Upper Flammability Limit: Not available

Vapour Pressure: 760 @ 100°C

Vapour Density: >1

Specific Gravity: 1.44

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Solubility in Water: Dispersible

Coefficient of Water/Oil Distribution: Not available

Auto Ignition Temperature: Not applicable

Percent Volatile, wt. %: 4

VOC content, wt. %: 69.3 g/l

Section 10: STABILITY AND REACTIVITY

Stability: Stable

Conditions of Reactivity: None

Incompatible Materials: Strong oxidizers, strong acids

Hazardous Decomposition Products: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, aluminum and zinc fumes and smoke may be produced.

Possibility of Hazardous Reactions: Will not occur.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD50 (oral)	LC50
Calcium Carbonate	Rat 6450 mg/kg	
Zinc Oxide	Mouse 7950 mg/kg	Mouse 2500 mg/m ³
Titanium Dioxide (silica quartz)	Rat 500 mg/kg bw/Quartz (10-200 um)	

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Lungs

Chronic Effects: This product is an encapsulated mixture which reduces the likelihood of exposure to hazardous particulates. Airborne exposures to hazardous dusts or mists may be generated by spraying, sanding or grinding. Continued inhalation of silica quartz dust from titanium dioxide may possibly produce congestion or tumours.

Carcinogenicity: IARC has concluded that the following chemicals in this product are possibly carcinogenic to humans (Group 2B): titanium dioxide

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Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available

Persistence / Degradability: Not available

Bioaccumulation / Accumulation: Not available

Mobility in Environment: Not available

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Dispose in accordance with applicable federal, provincial, state and local government regulations.

Section 14: TRANSPORTATION INFORMATION

TDG Classification: Not Restricted

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2A - Very Toxic

Ingredient s – Canadian Regulatory Information

silica quartz WHMIS - Ingredient Disclosure List

zinc oxide (as zinc) WHMIS - Ingredient Disclosure List

HMIS – Hazardous Materials Identification System

Health - 1

Flammability – 0

Reactivity - 0

NFPA – National Fire Protection Association

Health - 1

Fire - 0

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classifications:

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WHMIS Hazard Symbols:



SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration

ACGIH (G) American Conference of Governmental Industrial Hygienists

A1 – Confirmed human carcinogen

A2 – Suspected human carcinogen

A3 – Animal Carcinogen

A4 – Not Classifiable as a human carcinogen

A5 – Not suspected as a human carcinogen

IARC (1) International Agency for Research on Cancer

1 – The agent (mixture) is carcinogenic to humans

2A – The agent (mixture) is probably carcinogenic to humans: there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program

1 – Known to be carcinogens.

2 – Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

POLYCOATINGS INTERNATIONAL DIVISION OF REALSIT CORPORATION

Version: This MSDS supersedes a previous version dated: August 6, 2008