



Safety Data Sheet
TESS® Finish
Revision Date: August 11, 2014

1. Identification

Trade Name: TESS® Finish

Company: Formulated Solutions LLC
25-44 Borough Place
Woodside, NY, 11377

Telephone: 718-267-6380
Emergency Phone #: 718-267-6380

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

EMERGENCY 24 hours numbers:
USA: CHEMTREC 1-800-424-9300
CANADA: CANUTEC 1-613-996-6666

2. Hazard Identification

EMERGENCY OVERVIEW: WARNING! This product contains crystalline silica. Crystalline silica can cause lung injury and is known as a cancer hazard. Long-term exposure can cause silicosis. Silicosis is a respiratory disease, which can result in delayed, disabling and sometimes-fatal lung injury. Risk of injury is dependent on the duration and level of exposure. A single exposure will not result in serious adverse effects.

This product also contains Portland cement. When in contact with moisture in eyes or on skin, or when mixed with water, Portland cement becomes highly caustic (pH>12) and will damage or burn the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions.

DO NOT BREATHE DUST! Avoid creating dust when handling, using, or storing. Use only with adequate ventilation to keep exposure below recommended exposure limits.

KEEP FROM CHILDREN!

Hazard Pictogram:



Signal Words: WARNING!

GHS Class: Eye Damage, Category 1
Skin Irritant, Category 2
Acute Toxicity Oral, Category 4

Hazard Statements: Causes serious eye damage and skin irritation. May cause an allergic skin reaction, respiratory irritation, and drowsiness or dizziness.

Precautionary Statements: Wash hands thoroughly after handling. Contaminated work clothing must be cleaned before reusing. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Use only outdoors or in a well-ventilated area. DO NOT BREATHE DUST. Wear dust mask or N95 respirator or greater while handling product. Do not eat, drink or smoke when using this product.

Routes of Exposure: Eye, Skin, Ingestion, Inhalation.

Potential Health Effects:

Inhalation: Chronic exposure to crystalline silica can cause the following:

- a. Silicosis: a fibrosis (scarring) of the lungs.
- b. Lung cancer: Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.
- c. Tuberculosis: Silicosis increases the risk of tuberculosis.
- d. Autoimmune and Chronic Kidney Diseases.
- e. Non-Malignant Respiratory Diseases.

Eye Contact: May cause abrasion of the cornea, and or mechanical irritation of the eye.

Skin Contact: Wet compound can dry the skin and cause caustic burns. May cause an allergic reaction.

Ingestion: No adverse effects expected for incidental ingestion.

Signs/Symptoms: When wet this product is alkali. Excessive and prolonged exposure to the skin can cause severe irritation, burns and permanent tissue damage.

3. Composition/Information on Ingredients

Ingredient Name	CAS #	Percent
Portland Cement	65997-15-1	9-11%
Crystalline Silica, Quartz	14808-60-7	73-75%
Vinyl Acetate Copolymer	N/A	4-5%
Titanium Dioxide	13463-67-7	1-2%

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation: Remove person to fresh air. If irritation persists, seek medical attention. Adverse health effects associated with exposure to crystalline silica (quartz) result from chronic exposures.

Eye Contact: Wash eyes immediately with water for at least 15 minutes. Remove contact lenses if possible. If irritation persists, seek medical attention.

Skin Contact: Wash exposed skin with cool water and a pH neutral soap or mild detergent. Seek medical attention if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of a caustic burn.

Ingestion: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

5. Fire Fighting Measures

Flammability: TESS Finish is not flammable, combustible or explosive.

Extinguishing Media: Dry chemical Type ABC preferred

Fire Fighting Equipment/Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Keep upwind of fire. Always be cognizant of an immediate exit in case of a fire.

6. Accidental Release Measures

Spills: Clean up spilled material without causing it to become airborne or mixed with water to limit potential harm. Wear appropriate personal protective equipment.

Disposal: See Section 13

7. Handling and Storage

Handling Instructions: Avoid skin and eye contact. Do not swallow. Avoid generating dust. DO NOT BREATHE DUST. Maintain good personal hygiene and wash thoroughly after handling, especially before eating, drinking or smoking. Wash contaminated clothing before reusing.

Storage Measures: Keep out of the reach of children. Store in a cool, dry and well-ventilated area. Store in dust-tight, dry, labeled containers. Keep containers closed when not in use. Avoid unintentional contact with water. Do not subject material to freezing conditions.

8. Exposure controls and Personal Protection

Exposure Guidelines:

Occupational Exposure Limits

Ingredient	OSHA-PEL	ACGIH-TLV
Portland Cement	15mg/m ³ (total) 5 mg/m ³ (resp)	10 mg/m ³ (no asbestos and <1% crystalline silica, respirable fraction)
Crystalline Silica, Quartz	((10mg/m ³)/(%SiO ₂ +2) TWA (resp)) ((30mg/m ³)/(%SiO ₂ +2) TWA (total)) ((250)/(%SiO ₂ +5) mppcf TWA (resp))	0.025mg/m ³
Vinyl Acetate Copolymer	None established	None established
Titanium Dioxide	15mg/m ³ (total)	10mg/m ³ (total)

Skin Protection: Wear protective gloves and long sleeve shirts/pants to prevent skin contact.

Eye Protection: Wear approved eye (properly fitted dust – or splash proof-chemical safety goggles) / face (face shield) protection.

Respiratory Protection: In poorly ventilated areas or if the exposure limits are likely to exceed exposure levels, then wear a high efficiency particulate Respirator (NIOSH type N95 filter). Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

Engineering Controls: Use ventilation adequate to keep exposure (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

9. Physical and Chemical Properties

Physical State: Solid

Appearance: Powder

Color: N/A

Odor: N/A

pH: N/A

Melting/Freezing Point: N/A

Initial Boiling Point: N/A

Flash Point: N/A

Flammability: Not Flammable

Lower Flammability/Explosive Limit: N/A

Upper Flammability/Explosive Limit: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity: N/A

Solubility: N/A

Auto Ignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Oxidizing Properties: N/A

Explosive Properties: N/A

10. Stability and Reactivity

Stability: This product is stable. Keep dry until used.

Incompatibility (Materials to Avoid): None known

Conditions to Avoid: Heat. Incompatible materials. Moisture.

Hazardous Decomposition or Byproducts: May include, and are not limited to: oxides of carbon.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

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

Carcinogenicity: Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at a greater risk for developing adverse health effects when exposed to this material. There may be a relationship between silicosis and certain cancers.

Component Carcinogenicity:

Crystalline Silica (Quartz): 14808-60-7

ACGIH: A2 – Suspected Human Carcinogen.

NIOSH: potential occupational carcinogen.

NTP: Known Human Carcinogen.

IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans)).

CP65: Product contains a chemical known to the state of California to cause cancer.

Portland Cement: 65997-15-1

ACGIH: A4 – Not Classifiable as a Human Carcinogen

Titanium Dioxide: 13463-67-7

Titanium Dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

Acute Toxicity

Ingredient	LC50	LD50
Crystalline Silica, Quartz	Not Available	Not Available
Portland Cement	Not Available	Not Available
Vinyl Acetate Copolymer	Not Available	Not Available
Titanium Dioxide	Not Available	Not Available

Calculated overall Chemical Acute Toxicity Values

Component	LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Crystalline Silica, Quartz	Not Available	3608.2 mg/kg, rat	Not Available
Titanium Dioxide	>6.8mg/l, rat	>10,000 mg/kg, rat	>10,000 mg/kg, rabbit

12. Ecological Information

No ecotoxicity data are available for this product's components. There is no data currently to suggest that crystalline silica (quartz) is toxic to birds, fish, invertebrates, microorganisms, or plant.

13. Disposal Considerations

Dispose in a manner consistent with local, state, regional, provincial and/or Federal Regulations.

14. Transport Information

U.S. DOT: Not regulated as dangerous goods.

International Transportation: Not regulated as dangerous goods.

Class: 55

Special Precautions for User: Do not handle until all safety precautions are understood.

Transport Emergency: In the event of a transport emergency contact CHEMTREC at 1 800 424-9300

15. Regulatory Information

US: SDS prepared in accordance with the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SARA Title III

Ingredient	Section 302 (EHS TPQ (lbs.))	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed
Portland Cement	Not Listed	Not Listed	Not Listed	Not Listed
Vinyl Acetate Copolymer	Not Listed	Not Listed	Not Listed	Not Listed
Titanium Dioxide	Not Listed	Not Listed	Not Listed	Not Listed

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances list. Other state regulations may apply. Check individual state requirements.

Component	CAS	MA	MN	NJ	PA	RI
Crystalline Silica, Quartz	14808-60-7	Yes	Yes	Yes	Yes	Yes
Portland Cement	65997-15-1	Yes	Yes	Yes	Yes	Yes
Vinyl Acetate Copolymer	N/A	No	No	No	No	No
Titanium Dioxide	13463-67-7	No	No	No	Yes	No

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Crystalline Silica, Quartz	DSL	Yes
Portland Cement	DSL	Yes
Vinyl Acetate Copolymer	DSL	Yes
Titanium Dioxide	DSL	Yes

Canada WHMIS Information:



D2A, E

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure Act

Component	CAS #	Minimum Concentration
Silica Sand	14808-60-7	1%

16. Other Information

KEEP FROM CHILDREN!

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects caused by purchase, resale, use or exposure to this product. Customers-users of this product must comply with all applicable health and safety laws, regulations, and orders, including the OSHA Hazard Communication Standard.

Key/Legend: ACGIH = American Conference of Governmental Industrial Hygienists; CAS = Chemical Abstracts Services; CP65 = California Proposition 65; DOT = Department of Transportation; DSL = Domestic Substances List; EPA = Environmental Protection Agency; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; WHMIS = Workplace Hazardous Materials Information System

TESS® is a registered trademark of Formulated Solutions LLC

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END OF SAFETY DATA SHEET