

# Material Safety Data Sheet

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## I. CHEMICAL PRODUCT AND COMPANY DATA

**PRODUCT:** TAMOSEAL  
**CHEMICAL FAMILY:** WATERPROOF COMPOUND  
**REVISION DATE:** 3/2002  
**MANUFACTURER:** TAMMS INDUSTRIES  
3835 State Route 72  
Kirkland, Illinois 60146

## II. COMPOSITION / INFORMATION ON INGREDIENTS

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

INGREDIENT	CAS. NO.	EXPOSURE LIMITS			CONTENT
		TLV	STEL	PEL	
PORTLAND CEMENT	65997-15-1	10 mg/m <sup>3</sup>	N/E	5 mg/m <sup>3</sup> (respirable)	>25%
CRYSTALLINE SILICA	14808-60-7	.1mg/m <sup>3</sup>	N/E	10 mg/m <sup>3</sup> (respirable)	>20%
TRADE SECRET	*	N/E	N/E	N/E	<10%
TITANIUM DIOXIDE	13463-67-7	10 mg/m <sup>3</sup>	N/E	6 mg/m <sup>3</sup>	<5%

\* The specific chemical identity is being withheld as a trade secret in accordance with CFR 1910.1200(I).

N/A : Not available      N/E : Not established

## III. HAZARDS IDENTIFICATION

**HMIS Hazard Rating No. 2 (Moderate)**

**PRIMARY ROUTE OF ENTRY:** INHALATION, DERMAL, EYES

**EFFECTS OF OVER EXPOSURE:**

**INHALATION:** Breathing dust may cause nose, throat or lung irritation and choking.

**EYES:** May cause eye irritation, severe burns and damage to the cornea.

**SKIN CONTACT:** May cause dry skin, redness, discomfort, irritation or severe burns. May produce allergic reaction. Thickening of the skin (scleroderma) may be associated with exposure of high levels of crystalline silica.

**SKIN ABSORPTION:** No known information available.

**INGESTION:** Ingestion of large amounts may cause intestinal distress.

**CHRONIC:**

Excessive inhalation of respirable crystalline silica dust may cause progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function.

The American Conference of Governmental Industrial hygenists classifies crystalline silica, quartz, as a suspected human carcinogen. The International Agency for Research on Cancer has determined that crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic in humans (Group 1 – carcinogenic to humans). Refer to IARC Monograph 68, Silica and some Silicates and Organic Fibers ((published June 1997) in conjunction with the use of these materials. The National Toxicology Program classifies respirable crystalline silica as “known to be a human carcinogen”.

**IV. FIRST AID MEASURES**

**INHALATION:** Remove victim from exposure to fresh air. Seek medical attention.

**EYES:** Rinse carefully with water. Seek medical attention.

**SKIN:** Wash thoroughly with soap and water. Use moisturizing creams for irritated skin. Seek medical attention for burns or if irritation persists.

**INGESTION:** Do not induce vomiting, but drink plenty of water. Seek medical attention for discomfort.

**V. FIRE FIGHTING METHODS**

**HMIS Hazard Rating No. 0**

**Flash Point:** Non Combustible

**METHOD:** SETAFLASH

**AUTO-IGNITION TEMP.:** None

**LIMITS OF FLAMMABILITY:** Not combustible

**EXTINGUISHING MEDIA:** Use extinguishing media appropriate to the surrounding fire.

**SPECIAL FIRE FIGHTING PROEDURES AND PRECAUTIONS:** This product is not a fire hazard. Self contained breathing apparatus is recommended to limit exposure to smoke from any combustion source.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None.

**VI. ACCIDENTAL RELEASE MEASURES**

**ACTION TO TAKE FOR SPILLS/ LEAKS:**Wind blown material may cause hazards described in SectionIII. Use dry clean-up methods that do not disperse dust in the air. Avoid generating or breathing the dust.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with federal, state and local regulations.

**VII. HANDLING AND STORAGE**

KEEP DRY

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **PERSONAL PROTECTION**

RESPIRATORY: Wear a NIOSH approved respirator when dust may be above exposure limits.

EYE: Wear glasses or safety goggles to prevent contact with eyes. Wearing contact lenses when using this product under dusty conditions is not recommended.

SKIN: Use rubber gloves and protective clothing to prevent skin contact.

## **ENVIRONMENTAL CONTROLS**

Use exhaust ventilation to maintain dust levels below exposure limits in workplaces with poor ventilation and dusty conditions.

## **IX. Physical And Chemical Properties**

		Water/Oil Distribution	N/A
		Coefficient:	
Boiling Point:	NONE, SOLID	Solubility in Water:	SLIGHT .1 – 1%
Percent Volatile:	NONE, SOLID	Specific Gravity:	3.5
Freezing Point :	NONE, SOLID	pH:	11 – 13 (IN WATER)
Vapor Pressure mmHg	NOT	Evaporation Rate:	NOT MEASURABLE
@ 20° C	MEASURABLE		
Vapor Density	>AIR	Odor:	NONE
Odor Threshold:	N/A		
Appearance:	GRAY POWDER		
N/AV = Not Available		ca. = Approximate	

## **X. STABILITY AND REACTIVITY**

HMIS Hazard Rating No. 0

**STABILITY:** Product is stable, but must be kept dry. Reacts with water forming polymerized silicates and calcium oxide.

**CONDITIONS AND MATERIALS TO AVOID:** Dissolves in hydrofluoric acid producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, chlorine trifluoride and oxygen difluoride.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None, powdered solid.

## **XI. TOXICITY INFORMATION**

HMIS Hazard Rating No. 1 (SLIGHT)

**PRIMARY ROUTE OF ENTRY:** *INHALATION, DERMAL, EYES*

EFFECTS OF OVEREXPOSURE

**INHALATION:** May cause irritation to nose, lung and respiratory tract.

**EYES:** May cause eye irritation, sever burns and damage to the cornea.

**SKIN CONTACT:** May cause dry skin, irritation, and alkaline burns.

**SKIN ABSORPTION:** No information available.

**INGESTION:** Not expected to be relevant route of entry.

**CHRONIC:** Respirable crystalline silica is a suspected cancer agent by NTP and IARC.

## **XII. ECOLOGICAL INFORMATION**

Marine Pollutant: NL  
(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

## **XIII. DISPOSAL CONSIDERATIONS**

Dispose in a manner which is compliant to Federal, State and Local regulations.

## **XIV. TRANSPORT INFORMATION**

**DOT/UN SHIPPING NAME:** NON-REGULATED

**DOT HAZARD CLASS:** NON-REGULATED

**SHIPPING NAME:** NON-REGULATED

**Emergency Response Guide:** 128

## **XV. REGULATORY INFORMATION**

COMPONENTS ARE LISTED ON THE EPA/TSCA

**TITLE III SECTION 302:**

**TITLE III SECTION 311/312:**

**TITLE III SECTION 313:**

**CALIFORNIA PROPOSITION 65**

INVENTORY OF CHEMICAL SUBSTANCES

No reportable materials.

Product contains Portland Cement (65997-15-1) which is considered a hazardous chemical and a delayed health hazard.

No reportable materials.

Crystalline Silica (14808-60-7) is considered to be a carcinogen by the state of California.

## **XVI. OTHER INFORMATION**

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or to use with any other materials. This information is based on data believed to be reliable as of the date hereof. It is furnished without warranty of any kind express or implied. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by TAMMS INDUSTRIES in conjunction with the use of this information. Nothing herein is to be construed as a recommendation to infringe any patents.