Material Safety Data Sheet

24 Hour Assistance
1-847-367-7700
Rust-Oleum Corporation
www.rustoleum.com

Section 1 – Chemical Product / Company Information

Product Name	ROOF 5-GL 3900 HI BUILD ACRL ELASTOMERIC	Revision Date	June 8, 2009
Identification Number	3990300		
Product Use/Class	Roof Coating/Elastomeric		
Supplier	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer	Regulatory Department		

Section 2 – Composition / Information on Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Water	7732-18-5	60.0	N.E.	N.E.	N.E.	N.E.
Acrylic Polymer	Proprietary	40.0	N.E.	N.E.	N.E.	N.E.
Calcium Carbonate	471-34-1	40.0	N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m^3	N.E.	5 mg/m^3	15 mg/m^3
Propylene Glycol	57-55-6	5.0	N.E.	N.E.	N.E.	N.E.
Zinc Oxide	1314-13-2	5.0	2 mg/m^3	10 mg/m^3	5 mg/m^3	5 mg/m^3
Inert Filler	Proprietary	5.0	10 mg/m^3	N.E.	5 mg/m^3	5 mg/m^3
Crystalline Silica	14808-60-7	1.0	0.025 mg/m^3	N.E.	0.1 mg/m^3	5 mg/m^3
Formaldehyde	50-00-0	0.1	N.E.	N.E.	N.E.	N.E.

Section 3 – Hazards Identification

Primary Routes of Entry: Skin Contact Skin Absorption Inhalation Ingestion Eye Contact

Emergency Overview

White liquid. No serious effects anticipated under normal conditions of use. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry
Inhalation : No serious effects anticipated under normal conditions of use.
Eyes : Direct contact may cause mild irritation.
Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.
Skin : May cause mild irritation.

Aggravated Medical Conditions
Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects
Inhalation of crystalline silica (quartz) can cause cancer based on animal data, and IARC concludes sufficient evidence in humans (Group 1). Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. Long term overexposure to propylene glycol caused liver abnormalities, kidney damage in laboratory animals. Repeated excessive ingestion may cause central nervous system effects.
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.

Section 4 – First Aid Measures

Get immediate medical attention for any significant overexposure.

Inhalation: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention
Eye contact: Flush with water for 15 minutes. If irritation persists, get medical attention.
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: Get medical attention. Do not induce vomiting.
Notes to physician: Not applicable.

Section 5 – Fire Fighting Measures

Flash Point	>200 F	Lower Explosive Limit	Not Applicable
		Upper Explosive Limit	Not Applicable

Extinguishing media: This product is not expected to burn under normal conditions of use.
Hazardous combustion products: Carbon monoxide and carbon dioxide can form.Smoke, fumes.
Protective equipment for firefighters: Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
Fire and explosion conditions: This product not expected to ignite under normal conditions of use.

Section 6 – Accidental Release Measures

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

Section 7 – Handling And Storage

Handle in compliance with common hygienic practices. Clean hands thoroughly after handling. Keep from freezing. Do not use in confined or poorly ventilated areas. 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. Store in sealed containers in a dry, ventilated warehouse location above freezing.

Section 8 – Exposure Controls / Personal Protection

Personal protection equipment

Respiratory protection: Not required under normal conditions of use. Wear appropriate, NIOSH/MSHA approved respirator with combination particulate filter and vapor/gas removing cartridge when the ventilation is not adequate or if it is necessary to abrade or grind surfaces coated with this product.

Hand protection: Use suitable impervious rubber or vinyl 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. Use rubber apron and overshoes.

Protective measures: Other equipment not normally required. Use professional judgment in selection, care, and use.

Engineering measures: Not required under normal conditions of use. Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Titanium dioxide	13463-67-7	ACGIH	TWA: 10 mg/m3	
		OSHA PEL:	15 mg/m3	Total dust
		OSHA TWA:	15 mg/m3	Total dust
		OSHA TWA:	5 mg/m3	Respirable fraction
Zinc oxide	1314-13-2	ACGIH	TWA: 2 mg/m3	Respirable fraction
		ACGIH STEL:	10 mg/m3	Respirable fraction
		OSHA PEL:	5 mg/m3	Fume
		OSHA PEL:	5 mg/m3	Respirable fraction
		OSHA PEL:	15 mg/m3	Total dust
		OSHA TWA:	15 mg/m3	Total dust
		OSHA TWA:	5 mg/m3	Respirable fraction
Inert Filler	Proprietary	ACGIH	TWA: 10 mg/m3	
		OSHA PEL:	5 mg/m3	Respirable fraction
		OSHA PEL:	15 mg/m3	Total dust
		OSHA TWA:	15 mg/m3	Total dust
		OSHA TWA:	5 mg/m3	Respirable fraction
Crystalline Silica	14808-60-7			
(Quartz)/Silica Sand		OSHA TWA:	0.1 mg/m3	Respirable fraction
		OSHA TWA:	0.3 mg/m3	Total dust
		OSHA PEL:	15 mg/m3	Total dust
		OSHA PEL:	5 mg/m3	Respirable fraction

ACGIH TWA:	0.025 mg/m3	Respirable fraction

Section 9 – Physical and Chemical Properties

Boiling range:	212-999°F	Vapor Density	Heavier than Air
Odor:	Mild Ammonia	Odor Threshold:	N.E.
Appearance:	White Liquid	Evaporation Rate:	Slower than Ether
Solubility in Water:	Miscible		
Freeze Point:	N.D.	Specific Gravity:	1.33
Vapor Pressure:	N.D.	pH:	9 - 10
Physical State:	Liquid		

Section 10 – Stability and Reactivity

Substances to avoid: Strong acids. Strong bases.
Stability: Stable
Hazardous polymerization: Will not occur.

Section 11 – Toxicological Information

Product LD_{50}: N.D.

Product LC_{50}: N.D.

Component Toxicities

Calcium carbonate, CAS-No.: 471-34-1
Acute oral toxicity (LD_{50} Oral) 6450 mg/kg (Rat)

Propylene glycol, CAS-No.: 57-55-6
Acute oral toxicity (LD_{50} Oral) 30000 mg/kg (Rat) 18000 mg/kg (Rabbit) 19000 mg/kg (Dog) 23900-31800 mg/kg (Mouse) 18400-196000 mg/kg (Guinea pig)

Zinc oxide, CAS-No.: 1314-13-2
Acute oral toxicity (LD_{50} Oral) 7950 mg/kg (Mouse)

Formaldehyde, CAS-No.: 50-00-0
Acute oral toxicity (LD_{50} Oral) 800 mg/kg (Rat) 260 mg/kg (Guinea pig) 100 mg/kg (Rat) 42 mg/kg (Mouse)
Acute inhalation toxicity (LC_{50}) 0.82 mg/L for 30 min (Rat) 0.48 mg/L for 4Hr (Rat) 0.414 mg/L for 4Hr (Mouse) 0.4 mg/l for 2Hr (Mouse)

Section 12 – Ecological Information

Ecological Information: Product is a mixture of listed components.
No Other Data Available

Section 13 – Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems. Waste not regulated under RCRA.

Section 14 – Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group	Not Applicable
DOT Technical Name:	Not Applicable	Hazard Subclass:	Not Applicable
DOT Hazard Class:	Not Regulated	Response Guide Page:	Not Applicable
DOT UN/NA Number:	Not Applicable		

Section 15 – Regulatory Information

U.S. Federal Regulations

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard Chronic Health Hazard

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Zinc oxide 1314-13-2

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12 (B) if exported from the United States:

All components are listed or exempt from the TSCA inventory.

U.S. State Regulations

New Jersey Right-to-Know:

The following materials are nonhazardous, but are among the top five components in this product:

Chemical Name	CAS Number
Water:	7732-18-5
Acrylic Polymer	Proprietary
Calcium Carbonate	471-34-1
Titanium Dioxide	13463-67-7
Propylene Glycol	57-55-6
Crystaline Silica (Quartz) Silica Sand	14808-60-7

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
Water	7732-18-5
Acrylic polymer(s)	Proprietary
Calcium carbonate	471-34-1
Titanium Dioxide	13463-67-7
Propylene glycol	57-55-6
Zinc oxide	1314-13-2
Inert Filler	Proprietary

California Proposition 65:

Warning! This product contains a chemical(s) known by the State of California to cause cancer.

Warning! This product contains a chemical(s) known by the State of California to cause birth defects or other reproductive harm.

International Regulations:

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

Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: D2A D2B

Section 16 – Other Information

H M I S Health: 1 Flammability: 0 Reactivity: 0 Personal Protection: X

Abbreviations: N.A. – Not Applicable N.D. – Not Determined N.E. – Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.