

Section 4 - First Aid Measures

First Aid

Eyes: Wash immediately with plenty of water. Do not rub eyes. If irritation persists, seek medical attention.

Skin: First aid is not required.

Ingestion: If large amounts are swallowed, get immediate medical attention.

Inhalation: First aid is not generally required. If irritation develops from breathing dust, move the person from the overexposure and seek medical attention if needed.

See Section 11 for more detailed information on health effects.

Most important symptoms and effects, both acute and delayed: Particulates may cause abrasive eye injury. Inhalation of dust may cause respiratory tract irritation. Symptoms of exposure may include cough, sore throat, nasal congestion, sneezing, wheezing and shortness of breath. Prolonged inhalation of respirable crystalline silica above certain concentrations may cause lung diseases, including silicosis and lung cancer.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL:

UEL:

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Hazards Arising from the Substance or Mixture: Product is not flammable, combustible or explosive.

Advice for Fire-Fighters: None required.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing and respiratory protection. Avoid generating airborne dust during clean-up.

Environmental Precautions: No specific precautions. Report releases to regulatory authorities as required by local, state and federal regulations.

Methods and Material for Containment and Cleaning Up: Avoid dry sweeping. Do not use compressed air to clean spilled sand or ground silica. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system, or wet before sweeping. Dispose of in closed containers.

Reference to Other Sections: Refer to Section 13 for disposal information and Section 8 for protective equipment.

Section 7 - Handling and Storage

Precautions for Safe Handling: Do not generate dust. Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Respirable crystalline silica dust may be in the air without a visible dust cloud. Use adequate exhaust ventilation and dust collection. Maintain and test ventilation and dust collection to reduce respirable crystalline silica dust levels to below the occupational exposure limit. Use all available work practices to control dust exposures, such as water sprays. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Keep airborne dust concentrations below permissible exposure limits.

Where necessary to reduce exposures below the applicable exposure limit, wear a respirator approved for silica containing dust when using, handling, storing or disposing of this product or bag. See Section 8, for further information

on respirators. Do not alter the respirator. Do not wear a tight-fitting respirator with facial hair such as a beard or mustache that prevents a good face to face piece seal between the respirator and face. Maintain, clean, and fit test respirators in accordance with applicable standards. Wash or vacuum clothing that has become dusty.

Participate in training, exposure monitoring, and health surveillance programs to monitor any potential adverse health effects that may be caused by breathing respirable crystalline silica. All applicable national and local worker or community "right-to-know" laws and regulations should be strictly followed.

Conditions for Safe Storage, Including any Incompatibilities: Use dust collection to trap dust produced during loading and unloading. Keep containers closed and store bags to avoid accidental tearing, breaking, or bursting.

Specific end use(s):

Industrial uses: Various commercial and industrial applications.

Professional uses: Various commercial and industrial applications.

Section 8 - Exposure Controls / Personal Protection			
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Aluminum Oxide 1344-28-1	Not Established	Not Established	Not Established
CALCIUM SODIUM BOROSILICATE 65997-17-3	Not Established	Not Established	Not Established
TITANIUM DIOXIDE 13463-67-7	15 mg/m ³	10 mg/m ³	Not Established

Control Parameters:

If crystalline silica (quartz) is heated to more than 870°C, quartz can change to a form of crystalline silica known as tridymite; if crystalline silica (quartz) is heated to more than 1470°C, quartz can change to a form of crystalline silica known as cristobalite. In some countries, the exposure limits for crystalline silica as tridymite or cristobalite is different than the exposure limit for crystalline silica (quartz).

Exposure Controls:

Recommended Monitoring Procedures: Collection on filters and analysis by x-ray diffraction. Size selective sampling is recommended.

Appropriate engineering controls: Use adequate general or local exhaust ventilation to maintain concentrations in the workplace below the applicable exposure limits listed above.

Personal Protective Measurers

Respiratory Protection: If it is not possible to reduce airborne exposure levels to below the applicable limit with ventilation, follow local regulations to assist you in selecting respirators that will reduce personal exposures to below the limits. Refer to EN 529 or member state-specific guidance on use and selection of respiratory protection.

Eye Protection: Safety glasses with side shields or goggles recommended if eye contact is anticipated (EN 166)

Skin Protection: Maintain good industrial hygiene. Protection recommended for workers suffering from dermatitis or sensitive skin.

Other Protection: None known.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstance:

<p>Appearance: White Powder</p> <p>pH: 6-8</p> <p>Melting point: 3110°F/1710°C</p>	<p>Odor: None</p> <p>Density: 26.76 lb/gal</p> <p>Solubility: Insoluble in water</p>
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Boiling range: 4046°F/2230°C

Flammability: Not Applicable

Flash point: Not Applicable

%VOC 0.00%

Section 10 - Stability and Reactivity

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Reacts strong acids, reacts with oxidizing agents, reacts with strong alkali.

Conditions to Avoid: Avoid generation of dust in handling and use.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products: Toxic metal oxide smoke.

STABLE

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Inhalation Toxicity LC50: 1,138mg/L

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Slight irritant effect on eyes

Sensitization: No sensitizing effects known

Repeated dose toxicity: May Cause damage to organs through prolonged or repeated exposure.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Based on IARC classifications and not the CLP classification.

Carc.2

Section 12 - Ecological Information

Aquatic toxicity: Generally not hazardous for water

Persistence and degradability:Inorganic product is not eliminable from water by means of biological cleaning processes.

Bioaccumulative potential: Does not accumulate in organisms.

Mobility in soil: No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

Component Ecotoxicity

TITANIUM DIOXIDE

Ecotoxicity:

Fish: LC 50 - fathead minnow - > 1,000 mg/l - 96h

Invertebrates: EC 50 - Daphnia magna (water flea) - > 1,000 mg/l - 48h

Persistence and degradability:

Readily degradable in the environment.

Bioaccumulative potential: No additional information.

Mobility in soil: No additional information.

Other adverse effects: No additional information.

Section 13 - Disposal Considerations

Waste treatment methods

Recommendation

Smaller quantities can be disposed of with household waste. Can be reused after reprocessing. Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous waste. Residual materials should be treated as hazardous.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT		Not Regulated		
ADR		Not Regulated		
ADN		Not Regulated		
IMDG		Not Regulated		
IATA		Not Regulated		

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance of mixture United States (USA)

SARA

Section 355 (extremely hazardous substances): Substance is not listed

Section 313 (specific toxic chemical listings): Substance is not listed

TSCA (toxic substances control act): Substance is not listed

Proposition 65 (California)

Chemicals known to cause cancer: 13463-67-7 titanium dioxide

Chemicals known to cause reproductive toxicity for females: Substance is not listed

Chemicals known to cause reproductive toxicity for males: Substance is not listed

Chemicals known to cause developmental toxicity: Substance is not listed

Carcinogenic Categories

EPA (Environmental Protection Agency): Substance is not listed

IARC (International Agency for Research on Cancer): 2B 13463-67-7 titanium dioxide

TLV (Threshold limit Value established by ACGIH): A4 13463-67-7 titanium dioxide

NIOSH-Ca (National Institute for Occupational Safety and Health): 13463-67-7 titanium dioxide

Canada

Canadian Domestic Substances List (DSL): Substance is not listed

Canadian Ingredient Disclosure list (limit 0.1%): Substance is not listed

Canadian Ingredient Disclosure list (limit 1%): Substance is not listed

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

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

13463-67-7 TITANIUM DIOXIDE Carcinogen

R2K List

1344-28-1 Aluminum Oxide

13463-67-7 TITANIUM DIOXIDE

Section 16 - Other Information

The material contained in this Safety Data Sheet is based on information supplied to Smith Paint Products by the raw material suppliers of the individual components of this product. Smith Paint Products believes this information is truthful and reliable. However, no warranty is expressed or implied regarding the accuracy of this information, or of any product, method or apparatus mentioned and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and health and safety of your employees and users of this material. As more information becomes available from our vendors additional revisions will be forthcoming.

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