



# Safety Data Sheet

## HydroSHIELD Ceramic Insulating Roof Coating

P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor/...
P321	Specific treatment (see ... on this label).
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container to ...
P273	Avoid release to the environment.
P391	Collect spillage.

Other hazards which do not result in classification

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### SECTION 3: Composition/information on ingredients

#### Mixtures

#### Hazardous components

##### 1. TITANIUM DIOXIDE

Concentration 5 - 10 % (Weight)  
CAS no. 13463-67-7

##### 2. Component 2 (trade secret)

Concentration 25 - 40 % (Weight)

##### 3. Component 3 (trade secret)

Concentration 15 - 30 % (Weight)

##### 4. Component 4 (trade secret)

Concentration 1 - 2 % (Weight)

##### 5. Texanol

Concentration 1 - 2 % (Weight)  
CAS no. 25265-77-4

##### 6. Component 6 (trade secret)

Concentration 1 - 2 % (Weight)

##### 7. Component 7 (trade secret)

Concentration 1 - 2 % (Weight)

##### 8. Ammonium hydroxide (28 -30% NH3)

Concentration 1 - 2 % (Weight)  
EC no. 215-647-6  
CAS no. 1336-21-6  
Index no. 007-001-01-2

- Skin corrosion/irritation (chapter 3.2), Cat. 1B

- Hazardous to the aquatic environment - acute hazard (chapter 4.1), Cat. 1

H314 Causes severe skin burns and eye damage  
H400 Very toxic to aquatic life

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### 9. Component 9 (trade secret)

Concentration 2 - 4 % (Weight)

### 10. Component 10 (trade secret)

Concentration 0.5 - 1 % (Weight)

### 11. Component 11 (trade secret)

Concentration 5 - 20 % (Weight)

### 12. Component 12 (trade secret)

Concentration 5 - 20 % (Weight)

### 13. Silicates (less than 1% crystalline silica), Mica (respirable dust)

Concentration 5 - 20 % (Weight)

CAS no. 12001-26-2

### Trade secret statement (OSHA 1910.1200(i))

Specific chemical identity and exact percentage (concentration) of composition has been withheld as a trade secret.

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## SECTION 4: First-aid measures

### Description of necessary first-aid measures

#### General advice

No severe or acute health hazards are known to be associated with the use of this product. Avoid inhalation of heated vapors or spray mists. Common irritation symptoms-headache, nausea, nose and throat irritation-may result from overexposure.

#### If inhaled

Remove victim from exposure to well-ventilated area. If breathing is labored, qualified personnel should administer oxygen. Apply artificial respiration if breathing has ceased or shows signs of failing.

#### In case of skin contact

Remove contaminated clothing. Immediately wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.

#### In case of eye contact

Immediately flush eyes running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

#### If swallowed

Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

#### Personal protective equipment for first-aid responders

None

### Most important symptoms/effects, acute and delayed

No data available.

### Indication of immediate medical attention and special treatment needed, if necessary

No data available.

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### SECTION 5: Fire-fighting measures

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Specific hazards arising from the chemical

Carbon oxides.

#### Special protective actions for fire-fighters

Wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires. As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. No unusual fire or explosion hazards.

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### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate area.

#### Environmental precautions

In case of large spill, dike the area to prevent this material from entering water systems or sewers.

#### Methods and materials for containment and cleaning up

Absorb spill with an absorbent material such as sawdust, vermiculite or sand, and place in a closed container.

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### SECTION 7: Handling and storage

#### Precautions for safe handling

Avoid breathing aerosols, mists and vapors. Avoid prolonged or repeated skin contact (See Section 8 – Exposure Control for details)

#### Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Avoid storage above 100 °F. Do not freeze.

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### SECTION 8: Exposure controls/personal protection

#### Control parameters

##### 1. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 2. Titanium dioxide - Total dust (CAS: 13463-67-7)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 3. Titanium dioxide - Total dust (CAS: 13463-67-7)

REL (Inhalation): Ca, (ultrafine particles), 2.4 mg/m<sup>3</sup>(fine), 0.3 mg/m<sup>3</sup>(ultrafine), See Appendix A, See Appendix C (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 4. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

##### 5. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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### 6. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 7. Silicates (less than 1% crystalline silica), Mica (respirable dust) (CAS: 12001-26-2)

REL (Inhalation): See Annotated Z-3 (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### Appropriate engineering controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV (s). General ventilation is commended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released. For guidance on engineering control measures refer to publications such as the ACGIH current edition of "Industrial Ventilation, a manual of Recommended Practice."

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Chemical splash goggles in compliance with OSHA regulations are advised. However, OSHA regulations also permit other types of safety glasses. (Consult your safety equipment supplier)

#### Skin protection

Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH. Eye wash station and safety shower should be available.

#### Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

This product has demonstrated no observable effects at room temperature; however, it is highly recommended that an air-purifying respirator with organic filter cartridges be worn. In addition, in any interior, confined space, spray application, a supplied air source must be provided. When the product is sprayed or heated without adequate ventilation, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required. Air purifying respirators equipped with organic vapor cartridges and a Hepa (P100) particulate filter may be used under certain conditions when a cartridge change-out schedule has been developed in accordance with the OSHA preparatory protection standard (29 CFR. 1910.134).

#### Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance/form	Viscous Liquid
Odor	Faint Odor
Odor threshold	No data available.
pH	8.5 - 9.0
Melting point/freezing point	No data available.
Initial boiling point and boiling range	212°F
Flash point	N/A
Evaporation rate	Slower than ether
Flammability (solid, gas)	N/A

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Upper/lower explosive limits	N/A
Vapor pressure	No data available.
Vapor density	Heavier than Air
Relative density	No data available.
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	10,000 - 18,000 cps

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### SECTION 10: Stability and reactivity

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None known.

#### Conditions to avoid

Do NOT Freeze!

#### Incompatible materials

None known.

#### Hazardous decomposition products

No data available.

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Skin corrosion/irritation

Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin adsorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

##### Serious eye damage/irritation

Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, redness and swelling.

##### Respiratory or skin sensitization

Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may cause overexposure symptoms, such as headache, nausea, and irritation of nose and throat.

##### Carcinogenicity

The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSDHA, and not listed as carcinogens by NTP.

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### SECTION 12: Ecological information

#### Toxicity

No data available.

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### SECTION 13: Disposal considerations

#### Disposal of the product

Liquid waste must be disposed of in accordance with Federal, State and local regulations. Incineration is the preferred method.

#### Disposal of contaminated packaging

Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

#### Waste treatment

In its cured (solid) form, this product is considered non-hazardous, and can usually be land filled. For further information contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-434-9300).

#### Sewage disposal

Chemical waste, even small quantities should never be poured down drains, sewers or waterways.

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### SECTION 14: Transport information

Not dangerous goods

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### SECTION 15: Regulatory information

#### Safety, health and environmental regulations specific for the product in question

##### New Jersey Right To Know Components

Common name: TITANIUM DIOXIDE

CAS number: 13463-67-7

##### Pennsylvania Right To Know Components

Chemical name: Titanium oxide

CAS number: 13463-67-7

##### Massachusetts Right To Know Components

Chemical name: Ammonium hydroxide

CAS number: 1336-21-6

##### New Jersey Right To Know Components

Common name: AMMONIUM HYDROXIDE

CAS number: 1336-21-6

##### Pennsylvania Right To Know Components

Chemical name: Ammonium hydroxide

CAS number: 1336-21-6

##### New Jersey Right To Know Components

Common name: PERLITE

CAS number: 93763-70-3

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### New Jersey Right To Know Components

Common name: MICA  
CAS number: 12001-26-2

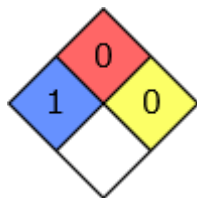
### Pennsylvania Right To Know Components

Chemical name: Mica-group minerals  
CAS number: 12001-26-2

### HMIS Rating

HydroSHIELD Ceramic Insulating Roof Coating	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

### NFPA Rating



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## SECTION 16: Other information

GHS formatting changes.

### Further information/disclaimer

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.

### Preparation information

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