

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Powdered Mixture
Trade name : Powdered Water Repellent (PWR)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Water repellent additive for concrete and masonry
Use of the substance/mixture : For professional use only

1.3. Details of the supplier of the safety data sheet

SaverSystems, Inc.
800 S. 7th Street
Richmond, 47374 - U.S.A.
T (765) 966-5084

1.4. Emergency telephone number

Chemtel : 1 (800) 255-3924 24/7

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GHS-US classification**

Skin Irrit. 2 H315
Eye Irrit. 2A H320
STOT SE 3 H335
Asp. Tox. 1 H305

2.2. Label elements**GHS-US labelling**

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H305 – May be harmful if swallowed and enters airways
H315 - Causes skin irritation
H320 - Causes eye irritation
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P261 - Avoid breathing dust, mist, spray, vapours
P264 - Wash hands thoroughly after handling
P271 – Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, eye protection
P301+P331 - IF SWALLOWED: Do not induce vomiting. Give person plenty of fluids.
P302+P353 - IF ON SKIN (or hair): Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen
P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332+P313 - If skin/eye irritation occurs: Get medical advice
P362 - Remove contaminated clothing and wash before reuse
P403+P404 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container to comply with applicable local, national and international regulation.

2.3. Other hazards

No data available :

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2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%
Octyl triethoxy silane	(CAS No) 35435-21-3	30-60
Ethanol	(CAS No) 64-17-5	varies

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Get medical attention if irritation or other symptoms occur. Before seeking medical attention, remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.
- First-aid measures after inhalation : Remove to fresh air. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- First-aid measures after skin contact : Wash with soap and water.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : If person is conscious, have them drink several glasses of water, but do not induce vomiting. If vomiting does occur, give additional fluids.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation. May cause mucous membrane irritation. Neurotoxic effects are possible. Inhalation of dust formation may cause lung damage.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : May cause eye irritation.
- Symptoms/injuries after ingestion : Ingestion is not expected in industrial use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray/mist.
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protective equipment for firefighters : Do not enter fire area without proper protective equipment, including respiratory protection. Wear approved self-contained breathing apparatus (set on positive pressure mode).
- Other information : Hazardous decomposition products may be released during prolonged heating like carbon monoxide and dioxide, formaldehyde, silicon dioxide, and incompletely burnt hydrocarbons.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use only outdoors. Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

6.1.1. For non-emergency personnel

- Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. For further information refer to section 8 : Exposure-controls/personal protection.

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6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up mechanically and dispose of according to local/state/federal regulations. Avoid dust formation.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Avoid dust formation. Danger of dust explosion.
Precautions for safe handling : Keep out of reach of children. Use only outdoors. Do not stir up dust; remove dust after wetting. Avoid dust deposit, remove dust regularly. Avoid breathing dust, mist or spray. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.
Hygiene measures : Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing prior to re-use. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep away from sources of ignition - No smoking. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. A washing facility/water for eye and skin cleaning purposes should be present.
Storage conditions : Keep out of reach of children. Keep only in the original container in a cool well ventilated place. Store away from freezing (avoid freezing during storage). Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Keep container tightly closed. Protect from sunlight. Observe precautionary measures against dust explosion.
Incompatible materials : Not applicable
Storage temperature : Do NOT Store at temperatures above 40 °C (104 °F)
Heat and ignition sources : Remove all sources of ignition.
Storage area : Ensure adequate ventilation of the storage area. Keep away from heat and direct sunlight. Keep away from sources of ignition. Keep only in the original container in a cool, well-ventilated place.
Special rules on packaging : Correctly labelled.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

- Appropriate engineering controls : Use with adequate ventilation which meets the requirements of ANSI Z9.2 to control airborne contaminants at the point of use. Avoid generation of dust.
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment.



- Hand protection : Wear protective gloves. Liquid-tight rubber or vinyl gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Eye protection : Wear chemical splash goggles.

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Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: A NIOSH approved air purifying respirator fitted with at least P-90 solid/aerosol particulate filters is recommended if overexposure to dust or aerosol mist could occur..
Environmental exposure controls	: Avoid discharge to the environment.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid, powder.
Appearance	: White.
Color	: White.
Odor	: Slight.
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 96°C (204°F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: Approx. 500 kg/m ³
Solubility	: Water: Negligible.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts slowly with water and acids. Reaction causes formation of ethanol.

10.2. Chemical stability

Formation of dust can cause explosion.

10.3. Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices, no hazardous reactions are known.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Not applicable

10.6. Hazardous decomposition products

If stored and handled properly, none are known. Small amounts of formaldehyde form at temperatures above 150°C (302°F) through oxidation. Ethanol formed by hydrolysis. Hazardous polymerization cannot occur.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: ATEmix(oral): >2000 mg/kg
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: May irritate mucous membranes. May irritate skin, degrease skin.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause liver damage
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Not classified
Symptoms/injuries after inhalation	: Not classified
Symptoms/injuries after skin contact	: Not classified
Symptoms/injuries after eye contact	: Not classified
Symptoms/injuries after ingestion	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No expected damaging effects to aquatic organisms. No adverse effects on water purification plants are expected
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12.2. Persistence and degradability

Powdered Water Repellent (PWR)	
Persistence and degradability	Contact with water liberates ethanol and silanol (and/or siloxanol compounds). Silicone content: biologically not degradable. Elimination by absorption to activated sludge. The hydrolysis product (ethanol) is readily biologically degradable.

12.3. Bioaccumulative potential

Powdered Water Repellent (PWR)	
Bioaccumulative potential	Not expected to occur

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information	: No additional information available.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT	
US DOT & Canada TDG Surface	: Not regulated for transport

Additional information

Other information	: No supplementary information available.
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Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance inventory.

15.2. International regulations

CANADA

Amorphous precipitated Silica (112926-00-8)

Listed on the Canadian Ingredient Disclosure List

Ethanol (64-17-5)

Listed on the Canadian Ingredient Disclosure List

EU-Regulations

No information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No information available

Classification according to Directive 67/548/EEC or 1999/45/EC

No information available

15.2.2. National regulations

PWR (Powdered Water Repellent)

This product is listed in, or complies with, the following:
The AICS (the Australian Inventory of Chemical Substances)
The Chinese Inventory of Existing Chemical Substances (IECSC in China)
The Japanese ENCS (Existing & New Chemicals Substances) inventory.
The South Korean ECL (Existing Chemical List) inventory.
The Philippine Inventory of Chemicals and Chemical Substances (PICCS)
The Canadian DSL (Domestic Substance List)
The USA TSCA (Toxic Substance Control Act) Chemical Substance Inventory

15.3. US State regulations

Ethanol (64-17-5)

Listed on the Massachusetts Substance List
Listed on the New Jersey Right-to-Know Hazardous Substance List
Listed on the Pennsylvania Right-to-Know Hazardous Substance List

Amorphous Precipitated Silica (112926-00-8)

Listed on the Massachusetts Substance List
Listed on the New Jersey Right-to-Know Hazardous Substance List
Listed on the Pennsylvania Right-to-Know Hazardous Substance List

SECTION 16: Other information

Other information : None.

Full text of H-phrases: see section 16:

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product