

Zacsil Solution

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product name : Zacsil Solution
Other means of identification : Grades: 30, 865, 18, Electronics 200, 865 D, Zacsil AG

1.2. Recommended use and restrictions on use

Manufacturing

1.3. Supplier

Zaclon LLC
2981 Independence Road
Cleveland, OH 44115
T 800-356-7327

1.4. Emergency telephone number

Emergency number : Chemtrec 1 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Acute toxicity (oral) Category 4 H302
Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US/CAN labeling

Hazard pictograms :



Signal word :

Warning

Hazard statements :

H302 - Harmful if swallowed

Precautionary statements :

P264 - Wash thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P330 - Rinse mouth
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-CAN classification	GHS-US classification
Water	(CAS No) 7732-18-5	59 - 72	Not classified	Not classified
Potassium silicate	(CAS No) 1312-76-1	28 - 41	Acute Tox. 4 (Oral), H302	Acute Tox. 4 (Oral), H302

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.
First-aid measures after skin contact : Flush skin with water. Remove contaminated clothing and wash before reuse and discard shoes.

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First-aid measures after eye contact	: Flush with plenty of water for at least 15 minutes. Seek medical advice if irritation develops or persists.
First-aid measures after ingestion	: Do not induce vomiting. Immediately give two glasses of water or activated charcoal slurry. Call a physician. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Prolonged or repeated contact may cause skin irritation.
Symptoms/injuries after eye contact	: May cause severe eye irritation.
Symptoms/injuries after ingestion	: Not considered a likely route of exposure under normal product use conditions. May cause gastrointestinal irritation if ingested.

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	: Use appropriate extinguishing media for surrounding fire.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: None
Explosion hazard	: None known.

5.3. Advice for firefighters

Protection during firefighting	: Firefighters should wear full protective gear.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Stop the flow of material, if this is without risk.
Methods for cleaning up	: Spill area will be slippery; use care to avoid falling. Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a cool place. Keep drums tightly closed to avoid evaporation. Keep from freezing (freeze point below 0 °F /-35 °C)
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7.3. Specific end use(s)

Manufacturing

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls	: General (mechanical) room ventilation is expected to be satisfactory for normal handling.
Hand protection	: Use rubber gloves.
Eye protection	: Use chemical splash goggles.
Skin and body protection	: Wear suitable work clothes to minimize skin contact
Respiratory protection	: None needed under normal product use conditions.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear
Colour	: Colorless.
Odour	: Odorless.
Odour threshold	: No data available
pH	: 11 - 12
Relative evaporation rate (butylacetate=1)	: < 1
Melting point	: No data available
Freezing point	: 0 °C (32°F)
Boiling point	: 100 °C (212°F) at 760 mm Hg
Flash point	: No data available
Self 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
Specific gravity	: 1.26 - 1.39
Solubility	: No data available
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

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Strong acids

10.6. Hazardous decomposition products

Not Determined

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE CA (oral)	500 mg/kg body weight
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Water (7732-18-5)

LD50 oral rat	> 90 ml/kg
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Potassium silicate (1312-76-1)

LD50 oral rat	5700 mg/kg
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Skin corrosion/irritation : Not classified

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Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Aquatic acute	: Not classified
Aquatic chronic	: Not classified

Potassium silicate (1312-76-1)

LC50 fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
BCF fish 1	(no bioaccumulation expected)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Potassium silicate (1312-76-1)

BCF fish 1	(no bioaccumulation expected)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified
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SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local/regional/national/international regulations.
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SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

TDG

Not regulated for transport

14.2. Transport information/DOT

DOT

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

IATA

Not regulated for transport

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SECTION 15: Regulatory information

15.1. Canada National regulations

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

Potassium silicate (1312-76-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium silicate (1312-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

No additional information available

SECTION 16: Other information

Full text of H-phrases:

H302

Harmful if swallowed

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