

# Safety Data Sheet

**Material Name:** Zacsil Solution

**Grades:** 30, 865, 18, Electronics 200, 865 D, Zacsil AG

## \*\*\* Section 1 - Identification of the Substance/Preparation and the Company/Undertaking \*\*\*

### Manufacturer Information

Zaclon LLC  
2981 Independence Road  
Cleveland, OH 44115

Phone: 216-271-1569 or 800-356-7327  
Fax: 216-271-1792  
Emergency # 800-424-9300 CHEMTREC

## \*\*\* Section 2 - Composition / Information on Ingredients \*\*\*

EC #	Component	Percent	Symbols	Risks
231-791-2	Water 7732-18-5	59-72		
215-199-1	Potassium silicate 1312-76-1	28-41		

## \*\*\* Section 3 - Hazards Identification \*\*\*

### Human and Environmental Hazards

Potassium silicate solutions are severe eye irritants and prolonged or repeated contact may cause skin irritation.

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

### First Aid: Skin

Flush skin with water. Remove contaminated clothing and wash before reuse and discard shoes.

### First Aid: 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.

### First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

Will not burn.

### Hazardous Combustion Products

Not determined

### Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

Stop the flow of material, if this is without risk.

### Clean-Up Procedures

Spill area will be slippery; use care to avoid falling. Flush spill area with plenty of water.

### Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

### Special Procedures

None

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

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## Storage Procedures

Store in a cool place. Keep drums tightly closed to avoid evaporation. Keep from freezing (freeze point below 0 °F /-35 °C)

## Specific Use

Paper treatment

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

#### Substance Exposure Limits

The EU, ACGIH, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of the substances in this preparation.

#### Engineering Controls

Good general ventilation should be provided.

#### PERSONAL PROTECTIVE EQUIPMENT

##### Personal Protective Equipment: Eyes/Face

Use chemical splash goggles.

##### Personal Protective Equipment: Skin

Wear coveralls and rubber gloves.

##### Personal Protective Equipment: Respiratory

None needed under normal product use conditions.

##### Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Clear, colorless	<b>Odor:</b>	None
<b>Physical State:</b>	Liquid	<b>pH:</b>	11-12
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	NA
<b>Boiling Point:</b>	100°C (212°F) at 760 mm Hg	<b>Melting Point:</b>	NA
<b>Solubility (H2O):</b>	Soluble	<b>Specific Gravity:</b>	1.26-1.39
<b>Freezing Point:</b>	0°C (32°F)	<b>Evaporation Rate:</b>	<1
<b>VOC:</b>	ND	<b>Octanol/H2O Coeff.:</b>	ND
<b>Flash Point:</b>	NA	<b>Flash Point Method:</b>	NA
<b>Upper Flammability Limit (UFL):</b>	NA	<b>Lower Flammability Limit (LFL):</b>	NA
<b>Burning Rate:</b>	NA	<b>Auto Ignition:</b>	NA

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

#### Chemical Stability

This is a stable material.

#### Chemical Stability: Conditions to Avoid

None

#### Incompatibility

Strong Acids.

#### Hazardous Decomposition

Will not occur.

#### Hazardous Polymerisation

Will not occur.

### \*\*\* Section 11 - Toxicological Information \*\*\*

#### Potential Health Effects

##### A: General Product Information

No information available for the product.

##### B: Substance Analysis - LD50/LC50

Water (231-791-2)

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Oral LD50 Rat >90 mL/kg

**Potassium silicate (215-199-1)**

Oral LD50 Rat 1300 mg/kg

## Carcinogenicity

### A: General Product Information

No information available for the product.

### B: Substance Carcinogenicity

None of the substances in this preparation are listed by IARC, Austria, Belgium, Denmark, France, Germany, Ireland, Luxembourg, Netherlands, Spain, or United Kingdom.

## \*\*\* Section 12 - Ecological Information \*\*\*

## Ecotoxicity

### A: General Product Information

No information available for the product.

### B: Substance Analysis - Ecotoxicity - Aquatic Toxicity

**Potassium silicate (215-199-1)**

**Test & Species**

**Conditions**

	96 Hr LC50 Lepomis macrochirus	301-478 mg/L
96 Hr LC50 Brachydanio rerio	3185 mg/L [semi-static] 96 Hr EC50 Daphnia magna	216 mg/L

## Mobility

No information available for the product.

## Persistence & Degradation

No information available for the product.

## Bioaccumulation

No information available for the product.

## Other Adverse Effects

No information available for the product.

## \*\*\* Section 13 - Disposal Considerations \*\*\*

## Waste Disposal Instructions

Avoid disposal, attempt to utilize preparation completely. Prior to disposal of unused preparation, consult an approved waste disposal operative to ensure regulatory compliance. Refer to local statutory requirements and the Toxic Industrial Waste Regulations (TIWR) for proper disposal instructions.

## \*\*\* Section 14 - Transportation Information \*\*\*

## IATA Information

**Shipping Name:** Not Regulated

## ICAO Information

**Shipping Name:** Not Regulated

## IMDG Information

**Shipping Name:** Not Regulated

## \*\*\* Section 15 - Regulatory Information \*\*\*

## EU MARKING AND LABELLING:

**Symbol(s):**

Not Classified.

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**Risk Phrases:**

None

**Safety Phrases:**

**A: General Product Information**

None

**B: Substance Analysis - Inventory**

Component/CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
Potassium silicate 1312-76-1	215-199-1	EINECS	DSL	Yes

**\*\*\* Section 16 - Other Information \*\*\***

**Key/Legend**

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

End of Sheet