

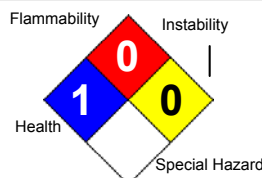
SAFETY DATA SHEET

K-SEAL Permanent Coolant Sealer

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1. Product and Company Identification

Product Code: ST5501 / ST5516 / ST7501 / ST7516
Product Name: K-SEAL Permanent Coolant Sealer
Manufacturer Information
Company Name: Solv-Tec
3860 Sylon Boulevard
Hainesport, NJ 08036
Phone Number: 609-261-4242
Fax Number: 609-261-4498
Information:
Web site address: www.kseal.com
Preparer Name: CRR

2. Hazards Identification

GHS Classification	Placard	Key word	GHS hazard phrase
Acute Toxicity: Oral, Category 4	Exclamation point	Warning	Harmful if swallowed
Skin Corrosion/Irritation, Category 3	none	Warning	Causes mild skin irritation
Serious Eye Damage/Eye Irritation, Category 2A	Exclamation point	Warning	Causes serious eye irritation

GHS Hazard Phrases

H302: Harmful if swallowed.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.

GHS Precaution Phrases

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.

GHS Response Phrases

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.
P332+313: If skin irritation occurs, get medical advice/attention.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.
P308+313: IF exposed or concerned: Get medical attention/advice.

GHS Storage and Disposal Phrases

P501: Dispose of contents/container properly.
P405: Store locked up.

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Potential Health Effects (Acute and Chronic)

No data available.

OSHA Regulatory Status:

While this material is not classified as hazardous under OSHA regulations, this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Water	7732-18-5	>=85.0 %
2. Flaxmeal	NA	<=7.0 %
3. Zinc, bis(D-gluconato-O1,O2)-	4468-02-4	<=3.0 %
4. Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0	< 2.0 %
5. Bentonite	1302-78-9	< 2.0 %
6. Aquador 2210	NA	<=1.2 %
7. Refractory fibers, aluminosilicate	142844-00-6	<=0.2 %
8. Polyethylene glycol	25322-68-3	<=0.06 %
9. Magnesium nitrate	10377-60-3	< 0.05 %
10. Dinonylphenol polyethoxylate	9014-93-1	<=0.04 %
11. 5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	< 0.003 %
12. Magnesium chloride	7786-30-3	<=0.002 %
13. 2-Methyl-4-isothiazolin-3-one	2682-20-4	< 0.001 %

4. First Aid Measures

Emergency and First Aid Procedures

EYES: If symptoms develop, immediately remove person away from exposure & into fresh air. Flush eyes gently with water FOR AT LEAST 15 MINUTES while holding eyelids apart. See immediate medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

INHALATION: If symptoms develop, immediately remove person away from exposure and into fresh air. Seek immediate medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet until medical help arrives.

INGESTION: Swallowing small amounts during handling is not likely to cause harmful effects unless it occurred repeatedly over time.

Signs and Symptoms Of Exposure

EYES: Can Cause eye irritation. Symptoms include: redness, stinging, tearing and swelling.

SKIN CONTACT: Can cause moderate skin irritation. Symptoms include redness, burning and delayed skin rash.

INHALATION & INGESTION: Immediate and/or delayed overexposure from breathing, swallowing, and skin absorption would result in one or more of the following symptoms: nausea, vomiting, diarrhea, respiratory irritation, cough, light headedness, weakness and fatigue.

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5. Fire Fighting Measures

Flash Pt: NA

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data available.

Fire Fighting Instructions
Not Applicable

Flammable Properties and Hazards
No data available.

Suitable Extinguishing Media
Not applicable. Does not support combustion.

Unsuitable Extinguishing Media
No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

SPILLS OR RELEASES: Water is the primary ingredient by percentage weight, followed by flaxmeal (strictly organic fibers) and other ingredients in very low percentages. Collect leaking and spilled liquid in sealable containers as much as possible. Use inert absorbent material to collect remaining residue. The contaminated contains copper and must be stored as a hazardous waste and disposed of according to Local, State & Federal laws.

7. Handling and Storage

Precautions To Be Taken in Handling

No special handling or storage procedures required.

Precautions To Be Taken in Storing

Keep out of reach of children.

Re-seal properly.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Water	7732-18-5	No data.	No data.	No data.
2. Flaxmeal	NA	No data.	No data.	No data.
3. Zinc, bis(D-gluconato-O1,O2)-	4468-02-4	No data.	No data.	No data.
4. Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0	No data.	No data.	No data.
5. Bentonite	1302-78-9	No data.	No data.	No data.
6. Aquador 2210	NA	No data.	No data.	No data.
7. Refractory fibers, aluminosilicate	142844-00-6	No data.	0.2 f/cc	No data.
8. Polyethylene glycol	25322-68-3	No data.	No data.	No data.
9. Magnesium nitrate	10377-60-3	No data.	No data.	No data.
10. Dinonylphenol polyethoxylate	9014-93-1	No data.	No data.	No data.
11. 5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	No data.	No data.	No data.
12. Magnesium chloride	7786-30-3	No data.	No data.	No data.
13. 2-Methyl-4-isothiazolin-3-one	2682-20-4	No data.	No data.	No data.

Respiratory Equipment (Specify Type)

If workplace exposure limits of product or any component is exceeded, a NIOSH approved air supplied respirator is advised.

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Eye Protection

Chemical splash goggles are advised if there is any chance of splashing.

Protective Gloves

Wear chemically resistant gloves such as natural rubber, nitrile rubber, polyvinyl chloride (PVC).

Other Protective Clothing

To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Engineering Controls (Ventilation etc.)

Provide sufficient mechanical ventilation (general and/or exhaust, as needed) to maintain exposure below TLV's.

Work/Hygienic/Maintenance Practices

No data available.

9. Physical and Chemical Properties

Physical States: ☐ Gas ☒ Liquid ☐ Solid

Melting Point: No data.

Boiling Point: NE

Autoignition Pt: No data.

Flash Pt: NA

Specific Gravity (Water = 1): 1.045 at 70.0 F (21.1 C)

Vapor Pressure (vs. Air or mm Hg): NE

Vapor Density (vs. Air = 1): NE

Evaporation Rate: NE

Solubility in Water: ~ 92%

Percent Volatile: ~ 80 % by volume.

pH: 5.9

Appearance and Odor

APPEARANCE: Light brown colored liquid that may have some minor sedimentation upon standing.

ODOR: Mild odor

10. Stability and Reactivity

Stability: Unstable ☐ Stable ☒

Conditions To Avoid - Instability

Extreme heat or freezing temperatures.

Incompatibility - Materials To Avoid

Avoid contact with: alkali and alkaline earth, alkali metals, strong acids, strong alkalis, and strong oxidizing agents.

Hazardous Decomposition Or Byproducts

Not expected to form hazardous decomposition products.

Possibility of Hazardous Reactions: Will occur ☐ Will not occur ☒

Conditions To Avoid - Hazardous Reactions

No data available.

11. Toxicological Information

Toxicological Information

LD50- Acute Toxicity, Rat at 2.83 ml/kg, oral

LC50- No test data available

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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.
2. Flaxmeal	NA	n.a.	n.a.	n.a.	n.a.
3. Zinc, bis(D-gluconato-O1,O2)-	4468-02-4	n.a.	n.a.	n.a.	n.a.
4. Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0	n.a.	n.a.	n.a.	n.a.
5. Bentonite	1302-78-9	n.a.	n.a.	n.a.	n.a.
6. Aquador 2210	NA	n.a.	n.a.	n.a.	n.a.
7. Refractory fibers, aluminosilicate	142844-00-6	n.a.	n.a.	A2	n.a.
8. Polyethylene glycol	25322-68-3	n.a.	n.a.	n.a.	n.a.
9. Magnesium nitrate	10377-60-3	n.a.	n.a.	n.a.	n.a.
10. Dinonylphenol polyethoxylate	9014-93-1	n.a.	n.a.	n.a.	n.a.
11. 5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	n.a.	n.a.	n.a.	n.a.
12. Magnesium chloride	7786-30-3	n.a.	n.a.	n.a.	n.a.
13. 2-Methyl-4-isothiazolin-3-one	2682-20-4	n.a.	n.a.	n.a.	n.a.
Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No		

12. Ecological Information

General Ecological Information

Food Chain CON Potential: Weak estrogen mimetic activity

Waterfowl Toxicity: No data available

BOD: 18% Day 5, 33% Day 10, 42% Day 20

Aquatic Toxicity: Yes, at varying levels to micro-organisms, aquatic invertebrates, and fish (fathead minnows)

13. Disposal Considerations

Waste Disposal Method

WASTE DISPOSAL PROCEDURES: Must be disposed of in accordance with Federal, State and Local Regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

LAND TRANSPORT (Canadian TDG)

TDG Shipping Name Not regulated.

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name Not regulated.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Not regulated.

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name Not regulated. Does contain low percentage of chemicals with aquatic toxicity.

Marine Pollutant: No

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Water	7732-18-5	No	No	No	No
2. Flaxmeal	NA	No	No	No	No
3. Zinc, bis(D-gluconato-O1,O2)-	4468-02-4	No	No	Yes-Cat. N982	No

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Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
4. Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0	No	No	No	No
5. Bentonite	1302-78-9	No	No	No	No
6. Aquador 2210	NA	No	No	No	No
7. Refractory fibers, aluminosilicate	142844-00-6	No	No	No	No
8. Polyethylene glycol	25322-68-3	No	No	No	No
9. Magnesium nitrate	10377-60-3	No	No	No	No
10. Dinonylphenol polyethoxylate	9014-93-1	No	No	No	No
11. 5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	No	No	No	No
12. Magnesium chloride	7786-30-3	No	No	No	No
13. 2-Methyl-4-isothiazolin-3-one	2682-20-4	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Water	7732-18-5	No	No	Inventory	No
2. Flaxmeal	NA	No	No	No	No
3. Zinc, bis(D-gluconato-O1,O2)-	4468-02-4	No	No	Inventory	No
4. Poly(oxy-1,2-ethanediyl),.alpha.-(4-nonylphenyl)-.omega.-hydroxy-,branched	127087-87-0	No	No	Inventory, 8A PAIR	No
5. Bentonite	1302-78-9	No	No	Inventory	No
6. Aquador 2210	NA	No	No	No	No
7. Refractory fibers, aluminosilicate	142844-00-6	No	No	Inventory, 5A(2)	No
8. Polyethylene glycol	25322-68-3	No	No	Inventory	No
9. Magnesium nitrate	10377-60-3	No	No	Inventory	No
10. Dinonylphenol polyethoxylate	9014-93-1	No	No	Inventory	No
11. 5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	No	No	Inventory, 5A(2)	No
12. Magnesium chloride	7786-30-3	No	No	Inventory	No
13. 2-Methyl-4-isothiazolin-3-one	2682-20-4	No	No	Inventory, 5A(2)	No

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

Sec.302:	EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.
Sec.304:	EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
Sec.313:	EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
Sec.110:	EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

Inventory:	Chemical Listed in the TSCA Inventory.
5A(2):	Chemical Subject to Significant New Rules (SNURS)
6A:	Commercial Chemical Control Rules
8A:	Toxic Substances Subject To Information Rules on Production
8A CAIR:	Comprehensive Assessment Information Rules - (CAIR)
8A PAIR:	Preliminary Assessment Information Rules - (PAIR)
8C:	Records of Allegations of Significant Adverse Reactions
8D:	Health and Safety Data Reporting Rules

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8D TERM: Health and Safety Data Reporting Rule Terminations**12(b):** Notice of Export**Other Important Lists:****CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical**CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant**CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)**CA PROP 65:** California Proposition 65**International Regulatory Lists:****EPA Hazard Categories:**

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

☒ Yes ☐ No Acute (immediate) Health Hazard

☒ Yes ☐ No Chronic (delayed) Health Hazard

☐ Yes ☒ No Fire Hazard

☐ Yes ☒ No Sudden Release of Pressure Hazard

☐ Yes ☒ No Reactive Hazard

16. Other Information

Solv-Tec Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Solv-Tec Ltd. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Solv-Tec LTD. will not be responsible for damages resulting from use of or reliance upon this information.

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