



Safety Data Sheet

1. IDENTIFICATION

Product Identifier	TRANS SEAL I
Other means of identification	
Synonyms	None known.
Manufacturer/Importer/Supplier/Distributor Information	
Manufacturer	
Address	Fluid Tech LLC 146 Industrial Park Road Sweetwater, TN 37922 USA
Telephone	(800) 995-5691
Facsimile	(800) 994-8561
Website	www.fluidtechllc.com
Email address	info@fluidtechllc.com
Emergency Phone	(865) 809-9995
Recommended Use	TRANS SEAL I is diluted with water and used as a dust suppressant and soil stabilizer.
Recommended Restrictions	None known.

2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	None known.
OSHA defined hazards	None.
Label elements	None required.
Signal words	No signal word.
Hazard statement	No hazard statement.
Precautionary statement	No precautionary statement.
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture	Mixture
There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.	
Occupational exposure limits, if available, are listed in Section 8.	

4. FIRST-AID MEASURES

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	None known.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Contact poison treatment specialist if large quantities have been ingested or inhaled.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. No hazards which require special first aid measures. No action shall be taken involving any personal risk without suitable training.
See Toxicological Information (Section 11).	

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use a fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon oxides.
Special protective equipment and precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training must be worn in case of fire.
Fire fighting equipment/instructions	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep
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emergency procedures	<p>unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.</p>
Methods and materials for containment and cleaning up	<p>Stop the flow of material, if this is without risk.</p> <p>Large Spills: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in appropriate container for disposal according to local regulations. Note: see section 1 of SDS for emergency contact information and Section 13 of SDS for waste disposal.</p> <p>Small Spills: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in appropriate container for disposal according to local regulations. Note: see section 1 of SDS for emergency contact information and Section 13 of SDS for waste disposal.</p>
Environmental precautions	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>

7. HANDLING AND STORAGE

Precautions for safe handling	<p>Obtain special instructions before use.</p> <p>Put on appropriate personal protective equipment (see section 8 of SDS).</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures</p>
Conditions for safe storage, including any incompatibilities	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	None.
Biological limit values	No biological exposure limits noted for the ingredient(s).

Exposure guidelines

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product

Other

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General hygiene considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Physical state	Liquid
Color	Opaque, white
Odor	Acetic
Odor threshold	Not available.
pH	4.0 – 5.5 @ 25 °C (77 °F)
Melting point/freezing point	0°C (32 °F)
Initial boiling point and boiling range	100°C (212 °F)
Flash point	Not determined.
Evaporation rate	1 ((n-Butyl acetate = 1))
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	17.5 mm Hg @ 20 °C (68.00 °F)
Vapor density	0.62 [Air = 1]
Relative density	1.08 – 1.10
Solubility(ies)	Not available.
Solubility (water)	Miscible
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not available
Other information	This SDS is not to be used as a specification sheet.

10. STABILITY AND REACTIVITY

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	The product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous or hazardous reactions known under conditions of normal use.
Conditions to avoid	Strong oxidizer.
Incompatible materials	The product is reactive or incompatible with the following materials: Oxidizing materials Acids
Hazardous decomposition products	Decomposition products may include the following: Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Not available.
Skin contact	Not available.
Eye contact	Not available.
Ingestion	Not available.

Symptoms related to the physical, chemical and toxicological characteristics No specific data.

Information on toxicological effects

Acute toxicity

Skin corrosion/irritation	No known significant effects or critical hazards.
Serious eye damage/eye irritation	No known significant effects or critical hazards.

Respiratory or skin sensitization

Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitization	This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Not available.

Reproductive toxicity Not available.

Specific target organ toxicity – single exposure Not available.

Specific target organ toxicity - repeated exposure Not available.

Aspiration hazard Not available.

Chronic effects No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Ecotoxicity Not expected to be harmful to aquatic organisms. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data available.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Not expected to be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal instructions The generation of waste should be avoided or minimized wherever possible. Collect and reclaim or dispose in sealed

	containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues/ unused products	Material should be recycled if possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations. Can be landfilled, when in compliance with local regulations.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. REGULATORY INFORMATION

US federal regulations

- TSCA - Chemical Export Notification (TSCA 12(b))**
None required.
- TSCA – Final Significant New Use Rules (TSCA 5(a)2)**
Not listed.
- TSCA - Proposed Significant New Use Rules (TSCA 5(a)2)**
Not listed.
- TSCA – Substances Consent Order (TSCA 5(e))**
Not listed.
- TSCA Inventory (TSCA 8b)**
All components are listed or exempted.
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**
Not listed.

Other federal regulations

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**
Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**
Not regulated.



Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. California Proposition 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient:	Acetaldehyde
Cancer:	Yes
Reproductive:	90 µg/day
Maximum acceptable dosage level:	No

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) or are exempted.

Canada - Workplace Hazard Materials Information System (WHMIS)

Not controlled.

Canada – Canadian NPRI

None required.

Canada – CEPA Toxic Substances

None required.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Hazardous Material Information System III (U.S.A.):

Health -	1
Flammability -	1
Physical hazards -	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements Not applicable.



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Revision date	February 21, 2016
Version #	02
Further information	Not available.
Disclaimer	<p>The information in the sheet was written based on the best knowledge and experience currently available.</p> <p>MANUFACTURER DISCLAIMER: The information given within this SDS is correct to the best of our knowledge, information and belief at the date of its revision and publication. However, the manufacturer makes no representation, warranty or guarantee as to its accuracy, reliability or completeness, nor assumes any liability for its use. It is the user's responsibility to confirm in advance that the information is current, applicable and suitable to their circumstances for each particular use. No representative of ours has authority to waive this provision. Please call for document accuracy if the revision date has exceeded 3 years.</p>
Revision Information	<p>Composition/Information on Ingredients: Ingredients</p> <p>Physical & Chemical Properties: Multiple Properties</p> <p>Regulatory Information: United States</p> <p>Address change</p>