



LIQUISHIELD
Safety Data Sheet

RussTech, Inc.
"WE ADD THE DIFFERENCE"

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION

Product Identification

- Trade Name: **LIQUISHIELD**
- Product Use: Integral Water Repellent Concrete Admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: Mixture

Company Information

- RussTech, Inc.
11208 Decimal Drive
Louisville, KY 40299
502-267-7700
- Prepared by Department of Environmental, Health and Safety

Emergency number – (serviced 24 hours)

- CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification of substance or mixture:

Flammable liquid	Category 4	Combustible liquid
Skin Irritation	Category 2	Causes skin irritation

Label elements: This material requires a hazard warning label in accordance with GHS criteria



Pictogram:

Signal Word: **WARNING**

Hazard statement(s):

H227: Combustible liquid

H315: Causes skin irritation.

Precautionary statement(s):

P210: Keep away from flames and hot surfaces, No smoking.

P264: Wash hands, arms, and face thoroughly after handling.

P280: Wear protective gloves/ eye and face protection.

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Precautionary statements (response):

P370+P378: IN CASE OF FIRE: Use dry sand, dry chemical or alcohol resistant foam.

P302+P352: IF ON SKIN: Wash with plenty of soap & water

P332+P313: If skin irritation occurs: Get medical advice.

P362: Take off contaminated clothing and wash before reuse.

P403+P235: Store in well ventilated area. Keep cool.

P501: Dispose of contents / container to an approved waste disposal facility.

Hazards not otherwise classified: Not applicable

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Per 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

Components:		
Chemical Name:	CAS#:	Content
Poly (dimethyl siloxane)	63148-62-9	50 – 100%

4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration, and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Use dry sand, dry chemical or alcohol resistant foam.

Unsuitable extinguishing media: Water jet – DO NOT USE DIRECT WATER STREAM

Specific hazards in case of fire: carbon dioxide, carbon monoxide, harmful vapors, nitrogen oxides, fumes/smoke, carbon black

Special protective equipment required for firefighting: Wear self-contained breathing apparatus (SCBA)

Additional information for firefighters: Flash back possible over considerable distance. Vapors may form explosion mixture with air. Contain fire water run-off if possible. Use water to cool exposed containers. Do not use water stream on fire as it may scatter and spread.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

- Wear appropriate PPE as needed
- Keep unprotected persons away

Environmental precautions:

- Prevent material from entering drains, septic systems, water sources, etc. using dikes, absorbent materials, and booms.

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Material containment and clean up:

- Contain material with dikes. Use non-sparking tools. Use inert absorbent material to soak up spilled material. Remove spilled material to storage for proper disposal. Dispose of spilled material and absorbent materials in accordance with local, state, and federal regulations. See section 13 for additional information.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not get material on skin or clothing. Avoid aerosol formation and wear proper PPE. Use only outdoors or in well ventilated areas. Handle in accordance with good industrial hygiene practices.

Information about protection against explosions and fires: Store in cool place with good ventilation. Do not expose material or packaging to ignition sources. Empty containers may be hazardous as they contain residue.

Information about safe storage: Keep in properly labeled container. Keep tightly closed. Store in cool place with good ventilation. Keep away from heat and other ignition sources.

Shelf Life: 18 months if properly stored.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

Additional information about exposure controls: No further data; see section 7

Components with limit values that require monitoring at the workplace: None

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly after use and before breaks and at end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: colorless
- Odor: faint
- Odor Threshold: Not available

Physical properties:

- pH value (@70°F): not applicable
- Specific gravity (@68°F): 0.877
- Bulk density: Not available
- Boiling point: 459°F / 237°C
- Freezing point/Melting point: -148°F /-100°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- Solubility in / Miscibility with water: <0.00025 g/l (virtually insoluble)
- Partition Coefficient (n-octanol/water): 6.1 (Log pow)
- Auto ignition: 484°F /251°C

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- Flash point: 108°F /42°C
- Lower / Upper Flammability Limits: LEL = 0.4% / UEL = not determined
- Viscosity: Not available

10. STABILITY AND REACTIVITY

Material stability: Material is stable and not sensitive to mechanical impact

Possibility of hazardous reactions: reacts with water, basic substances and acids.

Hazardous decomposition products: measurements have shown the formation of small amounts of formaldehyde at temperatures above 302°F /150°C through oxidation.

11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation but may include eye and skin contact.

Acute toxicity: This product has not been tested for toxicity. Data derived from individual components.

- Dermal: causes skin irritation
- Inhalation: no data available
- Ingestion: no data available

Chronic toxicity: This product has not been tested for toxicity.

- Repeated dose: no data available
- Genetic: no data available
- Carcinogenicity: no data available
- Reproductive: no data available
- Teratogenicity: no data available

Most important symptoms and effects; acute and delayed: Product may irritate the skin. Skin irritation may cause redness, itching and pain. Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

This product and its components have not been tested

Ecotoxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

13. DISPOSAL CONSIDERATIONS

In its manufactured form this material has a RCRA classification of D001 (ignitable). Dispose of in accordance with local, state, and federal regulations. Surplus or contaminated product should be disposed of by a licensed disposal facility. Do not discharge product or residues into sewers, drains, surface waters or ground waters. Empty containers may contain hazardous residues. Packaging should be emptied as much as possible and thoroughly cleaned before being reused or recycled.

14. TRANSPORT INFORMATION

Material is not regulated for transport. This material has been tested and does not sustain combustion. DOT flammable class 3 label or bulk liquid placards are not required.

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15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: fire hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt
- California Prop. 65: This product does not contain any chemicals known to the state of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

This information is based on our current knowledge and is furnished without warranty, representation, or license of any kind, except that this information is accurate to the best of RussTech's knowledge or is obtained from sources believed by RussTech to be accurate. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use thereof. RussTech assumes no responsibility for injuries proximately caused by use of the Material if reasonable safety procedures are not followed as stipulated in this Data Sheet. Additionally, RussTech assumes no responsibility for injuries caused by abnormal use of the Material even if reasonable safety procedures are followed. Buyer assumes the risk in its use of the Material.