

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 01/07/2021

Reviewed on 01/07/2021

### 1 Identification

- **Product Identifier**
- **Trade Name: REPEL**
- **Relevant identified uses of the substance or mixture and uses advised against:** Do not aerosolize.
- **Product Description:** Textile waterproofer
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
 Fiber-Seal Systems  
 9879 Chartwell Dr  
 Dallas, TX 75243  
 214-333-9400  
 214-333-9435  
 www.fiberseal.com
- **Emergency telephone number:** 800-255-3925

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Flame

Flam. Liq. 3 H226      Flammable liquid and vapor.



Health hazard

STOT RE 2 H373      May cause damage to organs through prolonged or repeated exposure.  
 Asp. Tox. 1 H304      May be fatal if swallowed and enters airways.



Eye Irrit. 2A H319      Causes serious eye irritation.  
 STOT SE 3 H335-H336      May cause respiratory irritation. May cause drowsiness or dizziness.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
 Naphtha (petroleum), hydrotreated heavy  
 Organic polymers (trade secret)
- **Hazard statements:**  
 H226      Flammable liquid and vapor.  
 H319      Causes serious eye irritation.  
 H335-H336      May cause respiratory irritation. May cause drowsiness or dizziness.  
 H373      May cause damage to organs through prolonged or repeated exposure.

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H304 May be fatal if swallowed and enters airways.

**Precautionary statements:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a poison center/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

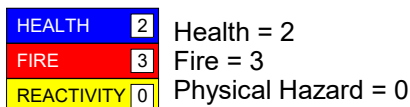
**Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values. 3.6 % of the mixture consists of component(s) of unknown toxicity.

- Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 - 4)**



**HMIS-ratings (scale 0 - 4)**



- Hazard(s) not otherwise classified (HNOC):** None known

**\* 3 Composition/Information on Ingredients**

- Chemical characterization: Substance**
- Description:** Mixture of substances listed below with non-hazardous additions.

**Dangerous Components:**

- |                                                                                  |
|----------------------------------------------------------------------------------|
| Naphtha (petroleum), hydrotreated heavy                                          |
| Flam. Liq. 3, H226;  Acute Tox. 3, H331;  Asp. Tox. 1, H304                      |
| Organic polymers (trade secret)                                                  |
| Skin Irrit. 2, H315;  Eye Irrit. 2A, H319;  STOT SE 3, H335;  Flam. Liq. 4, H227 |

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· **Additional information:**

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

· **Description of first aid measures**

· **General information:** Do not aerosolize.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water.

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

· **After swallowing:**

Seek immediate medical advice.

Do not induce vomiting.

Never give anything by mouth to an unconscious person.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### \* 5 Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture:**

Combustible liquid. Vapors can travel to a source of ignition and flash back.

Explosive mixtures may occur at temperatures at or above flashpoint.

· **Advice for firefighters** Wear self-contained breathing apparatus for fire-fighting if necessary.

· **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Dispose of the collected material according to regulations.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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· **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>	
Organic polymers (trade secret)	30 mg/m <sup>3</sup>
Trade Secret	60 ppm
· <b>PAC-2:</b>	
Organic polymers (trade secret)	330 mg/m <sup>3</sup>
Trade Secret	800 ppm
· <b>PAC-3:</b>	
Organic polymers (trade secret)	2,000 mg/m <sup>3</sup>
Trade Secret	8000** ppm

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
 Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**  
 Do not store near strong oxidizers  
 Store in a cool, dry place.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**  
 The usual precautionary measures for handling chemicals should be followed.  
 Keep away from foodstuffs, beverages and feed.  
 Immediately remove all soiled and contaminated clothing and wash before reuse.  
 Wash hands before breaks and at the end of work.  
 Store protective clothing separately.

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· **Breathing equipment:**

Fiber-Seal Systems recommends the use of a NIOSH-approved respirator with organic vapor cartridges.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Not applicable.

· **Penetration time of glove material:** Not applicable.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Not required.

### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:**

Liquid

**Color:**

Colorless

· **Odor:**

Hydrocarbon-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

**Melting point/Melting range:**

Not determined.

· **Flash point:**

46 °C (114.8 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

≥354 °C (≥669.2 °F)

· **Decomposition temperature:**

Not determined.

· **Auto igniting:**

Product is not self-igniting.

· **Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:**

0.7 Vol %

**Upper:**

6.5 Vol %

· **Vapor pressure @ 20 °C (68 °F):**

≤1.1 hPa (≤0.8 mm Hg)

· **Density @ 20 °C (68 °F):**

0.7693 g/cm<sup>3</sup> (6.4198 lbs/gal)

· **Relative density:**

Not determined.

· **Vapor density:**

Not determined.

· **Evaporation rate:**

Not determined.

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- **Solubility in / Miscibility with:**
  - Water:** Not miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 0.3 %
  - VOC content:** 0.30 %
  - Solids content:** 0.0 %
- **Other information:** No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:**
  - Strong acids, strong bases
  - Strong oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**Naphtha (petroleum), hydrotreated heavy**

Oral	LD50	>6,000 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	>7.8 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

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### 12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** Toxic to aquatic life
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** UN1993
- **UN proper shipping name:**
- **DOT** Flammable liquids, n.o.s. (Turpentine substitute)
- **ADR/ADN** UN1993 Flammable liquids, n.o.s. (Diesel fuel)
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE)
- **Transport hazard class(es):**

· **DOT**



- **Class:** 3 Flammable liquids
- **Label:** 3

· **ADR/ADN**



- **Class:** 3 (F1) Flammable liquids

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· **Label:** 3

· **IMDG, IATA**



· <b>Class:</b>	3 Flammable liquids
· <b>Label:</b>	3
· <b>Packing group:</b>	III
· <b>DOT, ADR/ADN, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Not applicable.
· <b>Special precautions for user:</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	30
· <b>EMS Number:</b>	F-E,S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	Consult 49 CFR to assure compliance with all applicable transportation regulations.
· <b>Quantity limitations:</b>	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L

· <b>ADR/ADN</b>	
· <b>Excepted quantities (EQ):</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· <b>IMDG</b>	
· <b>Limited quantities (LQ):</b>	5L
· <b>Excepted quantities (EQ):</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (DIESEL FUEL), 3, III

### \* 15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

Trade Secret

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

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<b>· Hazardous Air Pollutants</b>	
None of the ingredients are listed.	
<b>· California Proposition 65:</b>	
<b>· Chemicals known to cause cancer:</b>	
None of the ingredients are listed.	
<b>· Chemicals known to cause reproductive toxicity for females:</b>	
None of the ingredients are listed.	
<b>· Chemicals known to cause reproductive toxicity for males:</b>	
None of the ingredients are listed.	
<b>· Chemicals known to cause developmental toxicity:</b>	
None of the ingredients are listed.	
<b>· New Jersey Right-to-Know List:</b>	
Trade Secret	
<b>· New Jersey Special Hazardous Substance List:</b>	
Trade Secret	F3
<b>· Pennsylvania Right-to-Know List:</b>	
Trade Secret	
<b>· Pennsylvania Special Hazardous Substance List:</b>	
None of the ingredients are listed.	
<b>· Carcinogenic categories:</b>	
<b>· EPA (Environmental Protection Agency):</b>	
Trade Secret	D
<b>· TLV (Threshold Limit Value established by ACGIH):</b>	
None of the ingredients are listed.	
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health):</b>	
None of the ingredients are listed.	

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms:**



**· Signal word:** Danger

**· Hazard-determining components of labeling:**

Naphtha (petroleum), hydrotreated heavy  
Organic polymers (trade secret)

**· Hazard statements:**

- H226 Flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H304 May be fatal if swallowed and enters airways.

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**· Precautionary statements:**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a poison center/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· National regulations:**

None of the ingredients are listed.

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**· Contact:**

**· Date of last revision/ revision number:** 01/07/2021 / 22

**· Abbreviations and acronyms:**

- ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety and Health
- OSHA: Occupational Safety & Health Administration
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit

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REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

· **\* Data compared to the previous version altered.**

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