

**FloSurf™ RDM-W (Winterized Methanol Based) Surfactant+Non Emulsifier SDS, Safety Data Sheet**  
**MSDS Sheet, Material Safety Data Sheet**

**1. Product Identification**

Product Name/Synonyms: FloSurf™ RDM-W (Winterized Methanol Based)

CAS No.: Mixture

Molecular Weight: Mixture

Chemical Formula: NA

Recommended uses and uses advised against (if any): Oil & Gas Wells fracturing and Industrial Manufacturing.

**SUPPLIER**

Company: Finoric LLC

Address: 8115 Loop 540, Beasley, Texas, 77417 USA

**In case of emergency contact:**

**InfoTrac**

**US: 1-800-535-5053**

**International: 352-323-3500**

**2. Hazards Identification**

Flammable liquids Category 1

Acute toxicity, oral Category 3




Acute toxicity, dermal Category 3

Acute toxicity, inhalation Category 3

Serious eye damage/eye irritation Category 2A

Specific target organ toxicity, single exposure Category 1

**GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910**

GHS Label Elements	GHS Label Elements	GHS Label Elements
		
Flammable	Toxic	Health Hazard

**Signal Words: Danger**

#### **Hazard statements:**

H225: Highly flammable liquid and vapour.  
H301 + H311 + H331: Toxic if swallowed, in contact with skin or if inhaled.  
H319: Causes serious eye irritation.  
H370: Causes damage to organs.

#### **Precautionary statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking.  
P330: Rinse mouth.  
P233: Keep container tightly closed.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/light/.../equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P260: Do not breathe dust/fume/gas/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P330: Rinse mouth.  
P363: Wash contaminated clothing before reuse.  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position 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.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P309+311: IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician.  
P370+378: In case of fire: Use Water fog. Alcohol foam. Dry chemical. Polymer foam. Dry chemical powder. Carbon dioxide (CO2). Do not use a solid water stream as it may scatter and spread fire.  
P403+235: Store in a well ventilated place. Keep cool.  
P405: Store locked up.  
P501: Dispose of contents/container to authorized people.

### **3. Composition/Information on Ingredients**

Chemical Name 1: Alcohol Ethoxylate  
CAS#: 67762-41-8



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Percent: 1-14%

Chemical Name 2: Non-Haz Surfactant 1

CAS#: Trade Secret

Percent: 1-10%

Chemical Name 3: Non-Haz Surfactant 2

CAS#: Trade Secret

Percent: 1-10%

Chemical Name 4: Methyl Soyate

CAS#: 67784-80-9

Percent: 5-20%

Chemical Name 5: Dipropyleneglycol monomethyl ether

CAS#: 34590-94-8

Percent: 1-14%

Chemical Name 6: Methanol

CAS No.: 67-56-1

EINECS EC Number: 200-659-6

Percent: 20-40%

Water up to 100%

Composition/specific chemical identities of non-hazardous ingredients are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200

#### 4. First Aid Measures

**Always seek medical attention after first aid measures are provided.**

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact: Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Note to Physician: Symptomatic and supportive treatment is recommended.

#### 5. Fire Fighting Measures

Flammability of the Product: Flammable. Combustible by OSHA criteria. Containers may explode when heated.

Auto-Ignition Temperature: Not available.

Products of Combustion: Not available.



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Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: CO<sub>2</sub>, foam, dry chemicals.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Containers can build up pressure if exposed to heat (fire). As in any fire, wear a self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Apply alcohol-type foam or all purpose foam manufacturers recommended techniques for large fires. Use carbon dioxide or dry chemical for small fires. Use water spray to keep containers cool.

If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

## 6. Accidental Release Measures

Personal precautions, protective equipment, environmental precautions and emergency procedures: Avoid breathing dust/fumes/gas/mist/vapors/spray. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc). Restrict unprotected personnel from the area. Prevent any contact with hot surfaces. Do not approach facing the wind. Do not touch the spilled material. Keep away from drains, surface and groundwater and soil.

Methods and materials used for containment Cleanup procedures and Storage: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Contain spilled material. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas. Cover with an inert, non-combustible, inorganic absorbent material, sweep up, and remove to an approved disposal container.

Small Spill: Avoid breathing mist. Ensure adequate ventilation. Use appropriate tools to put the spilled material in a convenient waste disposal container. Dispose of according to local and regional authority requirements.

Large Spill: Contain spilled material. Cover with an inert, non-combustible, inorganic absorbent material, or sweep up, and remove to an approved disposal container. Do not let the product enter drains. Use a shovel to put the material into a convenient waste disposal container.

## 7. Handling and Storage

Precautions for safe handling: Apply according to good manufacturing and industrial hygiene practices with proper ventilation. Wash thoroughly after handling. Do not drink, eat or smoke while handling. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing dust/fumes/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Keep



container tightly closed. Avoid ingestion and inhalation. Use individual protective equipment (waterproof boots, suitable protective clothing, safety glasses, etc). Prevent any contact with hot surfaces. Containers of this material may be hazardous when empty since they retain product residues.

Conditions for safe storage, including any incompatibilities: Store in cool, dry and ventilated area away from heat sources and protected from sunlight in tightly closed original container. Keep air contact to a minimum. Store protected from heat, sparks and ignition sources and incompatible materials. Avoid contact with skin and eyes. Avoid inhalation of dust/mist/vapor. Do not store with incompatible materials like strong acids, alkali or oxidizing agents. Combustible liquids. Store away from foodstuffs. Keep away from ignition sources and flame.

## 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below:

Airborne Exposure Limits for Methanol:

Methanol TWA time weighted average USA ACGIH Threshold Limit Values: 200 ppm

Methanol STEL short term exposure limit USA ACGIH Threshold Limit Values: 250 ppm

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures: Maintain good housekeeping in work area. Dust deposits on floors and other surfaces may pick up moisture and cause the surfaces to become slippery and present safety hazards. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and Chemical Properties

Appearance: Light yellow

Odor: Alcoholic

Odor threshold: Not available.

pH: Not available.

Relative density: Not available.

Melting Point: <-30F.

Initial boiling point and boiling range: Not available.

Flash point: Not available.

Auto-ignition temperature: Not available.



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Decomposition temperature: Not available.  
Upper/lower flammability or explosive limits: Not available.  
Vapor pressure: Not available.  
Vapor density: Not available.  
Evaporation rate: Not available.  
Flammability (solid, gas): Not available.  
Partition coefficient: n-octanol/water: Not available.  
Solubility: It is soluble in water.  
Viscosity: Not available.

## 10. Stability and Reactivity

Stability: It is stable under ordinary conditions of use and storage. Avoid contact with strong acids, alkali or oxidizing agents..  
Hazardous Decomposition Products: It emits toxic fumes and carbon monoxide when heated to decomposition. It may form carbon dioxide and unidentified compounds at elevated temperatures.  
Hazardous Polymerization: Will not occur.  
Incompatibilities: Avoid contact with strong acids, alkali or oxidizing agents.  
Conditions to Avoid: Incompatibles flame and heat.

## 11. Toxicological Information

Toxicity to Animals: LD50: Not available. LC50: Not available for the mixture.  
Methanol: LDLO Oral - Human - 143 mg/kg(Methanol); LD50 Oral - Rat - 1,187 - 2,769 mg/kg(Methanol); LD50 Dermal - Rabbit - 17,100 mg/kg(Methanol).  
Carcinogenic Effects: Not available.

## 12. Ecological Information

Environmental Fate: Based on available information the product will not bio accumulate.  
Toxicity to fish for Methanol: mortality LC50 - Lepomis macrochirus (Bluegill) - 15,400.0 mg/l - 96 h(Methanol)  
Toxicity to daphnia and other aquatic invertebrates for Methanol: EC50 - Daphnia magna (Water flea): >10,000.00 mg/l - 48 h(Methanol)

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with law.

## 14. Transport Information



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Department of Transportation (DOT) Requirements:  
UN1993, Flammable Liquid, N.O.S. (Methanol), 3,  
Proper shipping name: Flammable Liquid, N.O.S. (Methanol)  
Packing group: III, Hazard class: 3

## 15. Regulatory Information

USA:  
SARA Hazard categories: Immediate Hazard, Delayed Hazard, Fire Hazard.

## Section 16 - Additional Information

**Prepared by AJK on 27 November 2019 - Printed on: 18 January 2020**

### Disclaimer:

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*The information and recommendations set forth herein are presented in good faith and believed correct as of the date the SDS was created. It is compiled from various sources and it is not necessarily all inclusive nor fully adequate in every circumstance. In addition, these suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements applicable. This SDS is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

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