

## **FloSurf™ RDM-W Winterized Surfactant+Non Emulsifier SDS, Safety Data Sheet**

### **MSDS Sheet, Material Safety Data Sheet**

#### **1. Product Identification**

Product Name/Synonyms: FloSurf™ RDM-W

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**

**GHS, Globally Harmonized System Classification in accordance with 29 CFR 1910  
Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, oral Category 4



Acute toxicity, dermal Category 5

Serious eye damage/eye irritation Category 2A

Acute toxicity, inhalation Category 5

Specific target organ toxicity, repeated exposure Category 2

**Labeling according GHS USA & Regulation (EC) No 1272/2008**

GHS Label Elements	GHS Label Elements
	
Health Hazard	Irritation

**Signal Words: Danger**

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**Hazard statements:**

H302: Harmful if swallowed.

H313: May be harmful in contact with skin.

H319: Causes serious eye irritation.

H333: May be harmful if inhaled.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

**Precautionary statements:**

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Do not eat, drink or smoke when using this product.

Wash skin thoroughly after handling.

P270 P280: Wear protective gloves/protective clothing/eye protection/face protection.

P314: Get Medical advice/attention if you feel unwell.

P301+P312 : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+ P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330: Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P501: Dispose of contents/container to authorized people.

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**3. Composition/Information on Ingredients**

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Chemical Name 1: Alcohol Ethoxylate

CAS#: 67762-41-8

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: Ethylene Glycol

CAS No.: 107-21-1

EINECS EC Number: 203-473-3

Percent: 40-60%

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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

Fire: Combustible.

Auto-Ignition Temperature: NA.

Products of Combustion: Not available.

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.

#### 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:

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.

## 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Airborne Exposure Limits for Ethylene Glycol:

ACGIH TLV TWA: 25 ppm

ACGIH TLV STEL: 50 ppm

ACGIH TLV STEL: 10 mg/m<sup>3</sup>

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. Wash hands after handling.

## 9. Physical and Chemical Properties

Appearance: Light yellow

Odor: Characteristic

Odor threshold: Not available.

pH: 5.0 - 10 at 10% solution at 25C (77F)

Relative density: 1 to 1.12

Boiling Point: > 212F

Melting Point: <-30F.

Freeze Point: 20F

Flash point: Not available.

Auto-ignition temperature: Not available.

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.

## 11. Toxicological Information

Toxicity to Animals: LD50: Not available. LC50: Not available for the mixture.

Ethylene Glycol: LD50 Oral - Rat - 4,700 mg/kg; LD50 Dermal - Rabbit - 10,626 mg/kg

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

## 12. Ecological Information

Environmental Fate: Based on available information the product will not bio accumulate.

Environmental Toxicity: The material is not considered as environmental hazard.

Toxicity to fish for Ethylene Glycol: LC50 - Oncorhynchus mykiss (rainbow trout) - 18,500 mg/l - 96 h; LC50 - Leuciscus idus (Golden orfe) - > 10,000 mg/l - 48 h.

## 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 federal, state and local requirements. Small amounts of this material may be suitable for sanitary sewer or trash disposal.

#### 14. Transport Information

DOT - USA: Not regulated as dangerous goods.

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

#### 15. Regulatory Information

No significant information is available.

#### Section 16 - Additional Information

**Prepared by AJK on 27 November 2019 - Printed on: 21 February 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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