

MATERIAL SAFETY DATA SHEET

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I. PRODUCT NAME – Unifloc 800

Product Type – Water Treatment Polymer

Hazard Rating - Health: 1 Flammability: 0 Physical Hazards: 0

II. COMPOSITION, INFORMATION ON INGREDIENTS

Component	CAS-#	Weight #
Acidified tannin substance	Confidential	25-35

III. HAZARDS IDENTIFICATION

Physical State: Liquid.

Emergency Overview: CAUTION! MAY CAUSE EYE IRRITATION.

Potential acute health effects

Eyes: Moderately irritating to eyes.

Skin: Slightly irritating to the skin.

Inhalation: No known significant effects or critical hazards.

See toxicological information (Section XI).

IV. FIRST AID MEASURES

Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open when rinsing. Consult a physician.

Skin Contact: Remove and wash contaminated clothing and gloves, including the inside, before reuse. Wash off immediately with plenty of water for at least 15 minutes. In case of persistent skin irritation, consult a physician.

Inhalation: Remove to fresh air. Consult a physician after significant exposure.

Ingestion: Rinse mouth with water. Do not induce vomiting. Call a physician immediately.

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V. FIREFIGHTING MEASURES

- Flash Point:** > 97 degrees C.
- Precautions:** The product when wet renders surfaces extremely slippery.
- Fire-fighting media and instructions:** Water spray. Foam. Carbon dioxide (CO₂).
- Special protective equipment for firefighters:** Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Autoignition temperature:** Does not ignite.

VI. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Keep away from spill/leak.
- Environmental precautions:** As with all chemical products, do not flush into surface water. Do not contaminate water.
- Methods for cleaning up:** Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed container for disposal. After cleaning, flush away traces with water.

VII. HANDLING AND STORAGE

- Handling:** Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breathe vapors or spray mist. When using do not smoke.
- Storage:** Keep in a dry cool place (0-30 degrees C). Store in original container. Keep away from heat and sources of ignition. Freezing will affect the physical condition any may damage the material. Materials to avoid: mild steel, stainless steel, aluminum and brass. Polyethylene, polypropylene or fiberglass tanks and drums are recommended.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering measures:** Ensure adequate ventilation. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Personal protection:

- Eyes:** Safety glasses with side-shields. Do not wear contact lenses when product is used.
- Hands:** PVC or other plastic material gloves.
- Skin:** Chemical resistant apron or protective suit if splashing or repeated contact With solution is likely.
- Respiratory:** In case of insufficient ventilation wear suitable respiratory equipment.

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Hygiene measures: Wash hands and face and breaks and immediately after handling the product. When using do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

IX. PHYSICAL AND CHEMICALS PROPERTIES

Physical State: Liquid .
Color: Dark brown.
Odor: Sweet.
pH: >2.0
Relative density: 1.059 to 1.099
Flash point: > 97 degrees C.
Boiling point: > 100 degrees C.
Freezing point: -7 degrees C.
Autoignition temp: Does not ignite.
Vapor pressure: No data available.
Water solubility: Completely soluble.

X. STABILITY AND REACTIVITY

Stability: Stable. Hazardous polymerization will not occur.
Materials to avoid: Aluminum, brass, mild steel, stainless steel.
Hazardous No decomposition if stored and applied as directed.
Decomposition products: Burning of the dried material can produce: hydrogen chloride gas, nitrogen oxide (NO_x), carbon oxides.

XI. TOXICOLOGICAL INFORMATION

Acute toxicity:

Skin: No data available.
Inhalation: No data available.
Oral: Acute oral LD₅₀ (rat) > 5000 mg/kg (estimated)

Irritation:

Skin: Moderate skin irritant.
Eyes: Moderate eye irritant.
Sensitization: No information available.

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XII. ECOLOGICAL INFORMATION**Aquatic Toxicity:**

- Toxicity to fish:** No information available.
Toxicity to daphnia: No information available.
Toxicity to algae: LC₅₀/Algae/72h = 10-100 mg/l

Environmental fate:

- LogPow:** ,0
Bioaccumulation: Does not bioaccumulate.

XIII. DISPOSAL CONSIDERATIONS

- Waste disposal:** Dispose of as special waste in compliance with local and national regulations.
Container: Dispose of as special waste in compliance with local and national regulations.

XIV. TRANSPORT INFORMATION

- DOT:** Not classified as dangerous in the meaning of DOT regulations.
IMDG/IMO: Not classified as dangerous in the meaning of IMO/IMDG regulations.
ICAO/IATA: Not classified as dangerous in the meaning of IMO/IMDG regulations.

XV. REGULATORY INFORMATION

- HCS Classification:** Irritating material.
U.S. Federal Regulations: **SARA 302/304/311/312 extremely hazardous substances:** No products were found.
SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory: All components are listed or Exempted.
California Prop. 65: No products were found.
- NFPA:** Health: 1 Flammability: 0 Instability: 0
HMIS: Health: 1 Flammability: 0 Physical Hazard: 0
PPE Code: B

The above information is believed to be correct with respect to the formula used to manufacture the product. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.