MATERIAL SAFETY DATA SHEET

France Water RO 6 W

Date of issue: July 28, 2009, Revision #0

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: France Water RO 6 W Surfactant Additive Membrane Cleaner
Synonyms: -
General Use: Reverse Osmosis Cleaner.
Company Identification:
Radieuse 2 rue George de Porto Riche 75014 Paris France
Phone number : 0033184063003.
For emergencies Call: +886-2-29185336

2. HAZARDS IDENTIFICATION

GHS Hazard Classification:
Acute toxicity(oral) : Category 5
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Skin sensitizer : Category 1
Acute hazards to the aquatic environment : Category 3

GHS label elements:
Symbol :

Signal words : Warning
Hazard statements : May be harmful if swallowed (oral)
Causes skin irritation
Causes serious eye irritation
May cause allergic skin reaction
Harmful to aquatic life

Precautionary statements :
Avoid contact with skin and eyes.
In case of contact with eyes or skin, rinse immediately with plenty of water and seek medical advice.
swallowed, do not induce vomiting, seek medical advice immediately and show this container or label.
Wear protective gloves.
Wear eye/face protection.
Keep container tightly closed and keep it in a well-ventilated place.
Avoid release to environment.
Other hazards which do not result in classification: None
3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Preparation: mixture
APPEARANCE: clear, colorless to pale yellow liquid

* Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

Hazardous ingredients:

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>% (w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25155-30-0</td>
<td>Sodium Dodecylbenzenesulphonate</td>
<td>5-30%</td>
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</table>

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

4. FIRST AID MEASURES

**Eyes:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do not allow victim to rub eyes or keep eyes closed.

**Skin:** Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Discard contaminated clothing in a manner which limits further exposure.

**Ingestion:** Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water to dilute stomach contents. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:** Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

**Notes to Physician:** Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable.

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Hazardous products of combustion:** Carbon monoxide (CO); carbon dioxide; sulfur oxides (SOx)

**Extinguishing Media:** Water spray, foam, dry chemical, or carbon dioxide

**Special Fire-Fighting information:** No information found.

**Autoignition temperature:** N/A

**Explosion Limits, Lower:** N/A, **Upper:** N/A

6. ACCIDENTAL RELEASE MEASURES

**General Information:** Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls /Personal Protection). Stop or reduce any leaks if it is safe to do so. Do not touch spilled material. Ventilate spill area if possible.

**Environmental:** Do not contaminate surface water. Do not allow material to contaminate ground water system. Prevent material from entering sewers or waterways.
Spills/Leaks: SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

6. HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Do not breathe vapor or mist. Emptied containers retain vapour and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The reuse of this material's container for non industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet.

Storage:
Temperature: >0°C, <35°C
Suitable materials of construction: glass lining; PVC; polypropylene; glass reinforced plastic; polyethylene
Unsuitable materials of construction: mild steel; carbon steel; aluminum; other metals
General: Freeze sensitive, Keep in a cool, dry, well ventilated place. Stable under normal conditions of handling and storage.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:
Ventilation System: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OHSA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Personal Protective Equipment:
Eyes: Wear chemical safety goggles, per OHSA eye and face protection regulations (29CFR 1910.133). Contact lenses are not eye protective devices. Never wear contact lenses when dealing with chemicals.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators (NIOSH or EN 149 Approved): Avoid breathing vapor or mist. Use approved respiratory protection equipment when airborne exposure is excessive. If used, full face piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. The respirator use limitations specified by the manufacturer must be observed.
Other Control Measures: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Exposure Limits:
This product does not contain any substance that has an established exposure limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and color: clear, colorless to pale yellow liquid
Odor: Odorless
Odour threshold: No data available
pH: 6-8 (1% solution)
Melting point/freezing point: About 0 degree C
Initial boiling point and boiling range: About 100 degree C
Flash point: Non flammable aqueous solution
Evaporation Rate (Bu. Acetate=1): <1 water
Flammability (solid, gas): Not applicable
Upper/lower flammability or explosive limits: No data available
Vapor Pressure (mm Hg): No data available
Vapor Density (Air=1): <1 water
Specific gravity @ 20 degree C: about 1.01
Solubility in water: completely miscible
Partition coefficient: n-octanol/water(log Kow): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available

NOTE: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature and pressure.
Conditions to avoid: No information found.
Incompatibilities with other materials: Strong oxidizing agents, strong acids.
Hazardous Decomposition Products: Carbon monoxide, oxides of sulfur, carbon dioxide, hydrogen sulfide.
Hazardous Polymerization: has not been reported.

11. TOXICOLOGICAL INFORMATION
Primary route of exposure: Eye, Skin
Acute Effects:
Eye: Can cause moderate irritation.
Skin: Can cause moderate irritation.
Ingestion: Not a likely route of exposure. May cause nausea and vomiting. Can cause central nervous system depression.
Inhalation: Not a likely route of exposure. No adverse effects expected.
Signs and symptoms of exposure:
Acute: A review of available data does not identify any symptoms from exposure not previously mentioned.
Chronic: A review of available data does not identify any symptoms from exposure not previously mentioned.

Aggravation of existing conditions:
A review of available data does not identify any worsening of existing conditions.

Toxicity data for CAS# 25155-30-0 is listed below:

LD50/LC50:
Oral, mouse: LD50 = 1330 mg/kg
Oral, rat: LD50 = 438 mg/kg
Eye irritation: Draize test, rabbit, eye: 250 ug/24H Severe;
Skin irritation: Draize test, rabbit, skin: 20 mg/24H Moderate;
Sensitization: This product is expected to be a sensitizer.
**Carcinogenicity**: None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

**Human Hazard Characterization**: Based on our hazard characterization, the potential human hazard is: Low

12. **ECOLOGICAL INFORMATION**

**Ecotoxicological data:**
Acute Fish 96 Hr LC50, Bluegill Sunfish: >1.8 mg/L
BCF: No information available

**Environmental Fate:**
Octanol/Water Coefficient = No information available
Bioaccumulation Potential: This preparation or material is not expected to bioaccumulate.
Mobility in soil: This product can penetrate and pass through soil.

**Other adverse effects:** No data available

13. **DISPOSAL CONSIDERATIONS**

**Disposal considerations:** Deactivation

**Miscellaneous advice:** Local, state, provincial, and national disposal regulations may be more or less stringent. Consult your attorney or appropriated regulatory officials for information on such disposal. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

14. **TRANSPORT INFORMATION**

**DOT Proper Shipping Name:** Not regulated.
**DOT Hazard Class:** -
**UN Number:** -
**Packing Group:** -
**marine pollutant(yes/no):** No
**Special precautions for user:** No

**NOTE:** The data provided in this section is for information only. Please apply the appropriated regulations to properly classify your shipment for transportation.
15. REGULATORY INFORMATION

US Federal

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.
Sodium Dodecylbenzenesulphonate: Eye irritant

CERCLA/SUPERFUND, 40 CFR 117, 302:
This product contains the following Reportable Quantity (RQ) Substance. Also listed is the RQ for each substance in the product. If a reportable quantity of product is released, it requires notification to the NATIONAL RESPONSE CENTER, WASHINGTON, D.C. (1-800-424-8802).
RQ Substance RQ
Sodium Dodecylbenzenesulphonate 4,000 lbs

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:
- X Immediate (Acute) Health Hazard
- - Delayed (Chronic) Health Hazard
- - Fire Hazard
- - Sudden Release of Pressure Hazard
- - Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
This product does not contain substances on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):
The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR / formerly Sec. 311:
This product contains the following substances listed in the regulation:
Substance(s) Citations
Sodium Dodecylbenzenesulphonate: Sec. 311

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances):
None of the substances are specifically listed in the regulation.

State California Proposition 65
This product does not contain substances which require warning under California proposition 65.

State right to know laws: The following substances are disclosed for compliance with state right to know laws.

NATIONAL REGULATIONS, CANADA:

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS):
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION:
D2B - Materials Causing Other Toxic Effects - Toxic Material

ANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):
- listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the...
Substances Notification Regulations.

16. OTHER INFORMATION

MSDS Creation Date: 7/28/2009, Version 0
Reference Book:
1. CHEMINFO database, CCINFO disc, 2006-1
2. RTECS database, TOMES PLUS disc, VoL68, 2006
3. HSDB database, TOMES PLUS disc, VoL68, 2006
4. IRIS database, EPA

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