



SPECIALIZED LUBRICANTS

1. Substance/Product Identification

Product Name: 233 Wet-Sol® Concentrate

Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA

Synonyms: None

Preparation/Revision Date: 02/26/2010

Product Use/Type: Nonionic surfactant, Spreader sticker, soil penetrant, adjuvant

Emergency Phone Number: +1 314 865-4105 (24-hour response number)
+ 1 314 865-4100 (Business hours 8:30AM-5:00PM)
1-800-325-9962 (US & Canada)

Website: www.schaefferoil.com

MSDS Number: 233 Version 1.0

2. Hazards Identification

Appearance: Pale green color liquid

Odor: Slight

Principal Hazards: Irritation to eyes and respiratory tract

Hazardous Materials Information System (U.S.A)

Health: 1
Fire: 1
Reactivity: 0:

National Fire Protection Agency System (U.S.A.)

Health: 1
Fire: 1
Reactivity: 0

See Section 11 for complete health hazard information

Product Name: 233 Wet-Sol ®Concentrate

3. Composition and Information on Ingredients

Hazardous Ingredients

| Ingredient Name | CAS No. | EU Number | Percentage (by wt.) |
|---|----------------|------------------|----------------------------|
| Poly(oxy-1,2-ethanediyl),alpha-(nonylpenyl)-omega-hydroxy | 9016-45-9 | 500-024-8 | 25 |
| Glycol ethers (fraction of product matching US EPA definition) | | | 0.75 – 2.5 |
| Polydimethylsiloxane | 63148-62-9 | | 0.3 |

4. First Aid Measures

Ingestion: If conscious and can swallow, give 2 glasses of water (16 ounces). Induce vomiting as directed by medical personnel. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids while flushing to rinse the entire surface of the eye and lids with water. Seek medical attention immediately.

Inhalation: Remove to fresh air. If breathing is difficult administer oxygen. Seek medical attention immediately if upper respiratory tract irritation persists.

Skin: Wash with plenty of soap and water. Launder contaminated clothing. Seek medical attention if skin irritation develops or persists.

Additional Information: None

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5. Fire Fighting Measures:

Flash Point: None aqueous solution

Extinguishing Media: After water evaporates residues can burn. Use water spray, dry chemical foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers

Firefighting Procedures: Wear full protective clothing and positive pressure breathing apparatus

Unusual Fire & Explosion: None

Hazards: Water or foam may cause frothing

6. Accidental Release Measures

Spill Procedures and Clean up methods: Contain spill if possible, Contain with absorbent material such as clay or soil and shovel up.

Personal Precautions: Avoid contact with skin and eyes

Environmental Precautions: This product should be kept out of watercourses and waterways. If spilled into waterways, watercourses, lakes or streams this material may be toxic to aquatic life.

7. Handling & Storage

Handling: Avoid all contact of product with eyes and skin. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow product. Do not inhale vapors or mists.

Storage: Do not store product at elevated temperatures. Store in a cool dry place that has adequate ventilation. Do not store near food or feed products. Keep containers closed when not in use. Keep away from direct sunlight. Keep product from freezing.

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8. Exposure Controls and Personal Protection

Occupational Exposure Limits

| Ingredient | OSHA TWA | OSHA STEL | ACGIH TWA | ACGIH STEL |
|--|-------------|--------------|--------------|---------------|
| Poly(oxy-1,2-ethanediyl),alpha-(nonylpenyl)-omega-hydroxy | N/E | N/E | N/E | N/E |
| Glycol ethers (fraction of product matching US EPA definition) | N/E | N/E | N/E | N/E |

- (s)-Skin exposure
- (p) proposed limit
- (c) – Ceiling limit
- (l) Recommended exposure limit
- (u) supplier limit
- (N/E) – not established

Other Exposure Limits

Engineering Controls: Local exhaust ventilation recommended if any vapors, dust or mists are generated. If exhaust ventilation is not available use MSHA or NIOSH approved respirator as appropriate.

Personal Protective Equipment

Gloves: Chemical resistant gloves

Protective Clothing: Apron and long sleeves recommended

Eye Protection: Chemical resistant type goggles should be worn. Avoid wearing contact lenses.

Respiratory Protection: Airborne concentrations should be kept at the lowest levels possible. If any vapors or mists are generated and the occupational exposure limit of the product is exceeded, use appropriate NIOSH or MSHA approved respirator

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9. Physical and Chemical Properties

Flash Point: None aqueous solution

Specific Gravity: 1.01

Upper Flammable Limit (UEL): Not Determined

Lower Flammable Limit (LEL): Not Determined

Vapor Pressure: Not Determined

Vapor Density (air =1): >1

Percent Volatile: Nil

Evaporation Rate: Not Determined

pH: 7-8

Boiling Point: >212°F/>100°C

Melting Point: Not applicable

Appearance: Pale green color liquid

Odor: Slight

Solubility in Water: Completely soluble

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise specified

10. Stability and Reactivity

Stability: Stable under normal conditions

Materials to Avoid: Strong oxidizers and acids.

Polymerization: Will not occur

Thermal Decomposition: Carbon monoxide, carbon dioxide, aldehydes and ketones may be formed on burning.

Conditions to Avoid: None

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11. Toxicological Information:

Routes of Exposure: Skin, eyes, ingestion and inhalation

Target Organs:

Acute Exposure

Ingestion: May cause abdominal discomfort, nausea and diarrhea

Eye Contact: May cause severe irritation, experienced as discomfort or pain, excess redness and swelling of the eye. Possible injury to the cornea

Skin Contact: Prolonged contact such as with clothing wetted with the product may cause severe irritation and discomfort that can be seen as redness and swelling.

Inhalation: Vapors or mists, especially as generated from heating the material or as exposure in poorly ventilated areas or confined spaces, may be irritating and cause discomfort in the nose, throat, nasal discharge and coughing.

Dermal Sensitization: Sensitization properties are unknown. There are no known adverse effects that have been documented in humans as a result of chronic exposure.

Inhalation Sensitization: Sensitization properties are unknown. There are no known adverse effects that have been documented in humans as a result of chronic exposure.

Carcinogenicity: Product does not contain any components listed by ACGIH, IRAC, NIOSH, NTP or OSHA

Additional Toxicological Information:

Oral LD50: 2,000 to 5,000 mg/kg (rat)

Dermal LD50: 2,000 mg/kg (rabbit)

12. Environmental and Ecological Information

Ecotoxicity

LC50 (96 hours) – Typical aquatic toxicity rating is 1-15 ppm for ethoxylated nonylphenols. Moderately toxic to aquatic life.

Ethoxylated nonylphenols are considered to be endocrine disruptors in the EU

Environmental Fate:

Biodegradation: This product is biodegradable by the Modified OECD Sturm 301B Method

Bioaccumulation: This product is not expected to bioaccumulate

Water Class Hazard (Germany): Not determined

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13. Disposal Considerations

Waste Handling and Disposal: This product in its neat state when discarded or disposed of is not a hazardous waste according to Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable Federal, State and local laws and regulations. Under RCRA it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses and mixtures may render the resulting materials hazardous. Do not re-use empty containers

14. Transport Information

US DOT Classification Non-Bulk: Not regulated

US DOT Classification Bulk: Not Regulated

IMDG Classification: UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S., (Ethoxylated Nonylphenols),9,PG III, Marine Pollutant , (Ethoxylated Nonylphenols)

IATA/ICAO Classification: Not regulated

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15. Regulatory Information

Hazard Symbols



Xi Irritant

US Regulations

TSCA Inventory: All of the components in this material are on the US TSCA Inventory or are exempt.

State of California Proposition 65: This product does not contain any of the chemicals that are listed on the State of California's Proposition 65 List as potential cancer causing agents or reproductive toxins

US EPA SARA Title III and CERCLA Listings and Reportable Quantities

US EPA Section 311/313 Classifications

This product contains 2-9% Glycol ethers (fraction of product matching US EPA definition)

US EPA Section 313 Chemicals

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating
X

US Tariff Heading Number:

Schedule B Number: 3402.13.0000

Other Regulations:

Canada: All of the ingredients of this product are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substance List

Canadian WHMIS Classifications and Symbols: Class D, Division 2, Subdivision B: Irritant

EEC: Ethoxylated nonylphenols are prohibited from use in the European Union.

Australian Inventory Status: The components in this product are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS)

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16. Other Information

For additional information call +1 314-865-4100 (outside the US and Canada) or 1-800-325-9962 inside the United States and Canada.

Although the information and recommendations set forth herein (hereafter referred to as information) are presented in good faith and believed to be accurate and factual as of the date hereof, Schaeffer Mfg. Company makes no representation as to the completeness or accuracy thereof. Information is supplied upon the condition that the person receiving the same will make their own determination as to its safety and suitability for their purposes prior to use. In no event will Schaeffer Mfg. Company be responsible for damages of any natures whatsoever resulting from the use or reliance upon information. **No representation or warranty, either expressed or implied, of merchantability or fitness for a particular purpose is made with respect to information of the product to which the information refers. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.**