1. Substance/Product Identification

Product Name: 332 Turbo Red© Cleaner Concentrate
Company/Address: Schaeffer Mfg
102 Barton Street
Saint Louis, Missouri 63104
USA
Preparation/Revision Date: 05/13/2014
Product Use/Type: Concentrated detergent
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
SDS Number: 332 Version 1.1

2. Hazards Identification

Appearance: Light red liquid
Odor: Sweet
Principal Hazards: Warning!

Causes skin irritation.
Causes eye irritation.

Precautionary Statements:
Do not get in eyes, on skin or on clothing.
Wear protective gloves/clothing/eye wear/face protection
Keep out of reach of children.

See Section 11 for complete health hazard information

3. Composition and Information on Ingredients

Hazardous Ingredients

Ingredient Name	CAS number	EU Number	Percentage (wt.)
Monoethanol amine	141-43-5	205-483-3	5-10
Ethylene glycol monophenyl ether	122-99-6	204-589-7	0-5
Propylene glycol monobutyl ether	5131-66-8	225-878-4	0-5
Sodium Xylenesulfonate	1300-72-7	215-090-9	5-10
Dodecylbenzene Sulfonic Acid	27176-87-0	248-289-4	5-10
Ethylenediaminetetraacetate, sodium salt	64-02-8	200-573-9	0-5
Alcohols C_6-C_{12}, ethoxylated	68439-45-2		0-5

4. First Aid Measures

Ingestion: Do not induce vomiting. If person is conscious, give two glasses of water to drink. Never induce vomiting or give liquids to someone who is unconscious, having convulsions, or unable to swallow. Seek medical attention immediately.
Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing with eyelids open and while rolling eyes. MINIMUM flush is for 15 minutes. If eye irritation persists seek medical attention.
Inhalation: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored administer oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. It may be dangerous to the person providing aid to give mouth-to-mouth. If unconscious, place in recovery position and seek medical attention. Loosen tight clothing such as collar, tie, belt, or waistband. If heart has stopped, trained personnel should begin CPR. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin: Wash for at least 15 minutes under running water. Remove contaminated clothing, taking care not to contaminate eyes. If skin irritation occurs or persists seek medical attention. Wash contaminated clothing before reuse, discard contaminated shoes.

Additional Information: Note to physician: treat symptomatically. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (such as: gastric lavage after endotracheal intubation).

5. Fire Fighting Measures

Flash Point: not applicable
Extinguishing Media: In case of fire in surrounding area, all extinguishing agents are allowed.
Firefighting Procedures: Water spray may be ineffective on fire, but can protect fire-fighters and cool closed containers. Use fog nozzles if water is used. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Unusual Fire & Explosion: Isolate from acids. Applying to hot surfaces requires special precautions.
Hazards: Container may rupture on heating

6. Accidental Release Measures

Spill Procedures and Clean-up methods: Evacuate all non-essential personnel. Personal protective equipment must be worn. Stop spill at source. Construct temporary dikes of dirt, sand or any appropriate readily available material to prevent spreading. Close or cap valves and/or block or plug hole in leaking container. Transfer to another container. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed with inert materials. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Collect used absorbent material and discard as dictated by National, International, Federal, State, Provincial and local laws and regulations. Spills are very slippery and should be cleaned up promptly.
Personal Precautions: Wear appropriate personal protective equipment when cleaning up spills.
Environmental Precautions: .S.A. regulations may require reporting spills of this material that could reach any surface waters. Report spills to local authorities and/or the National Response Center at (800) 424-8802 as appropriate or required. Report spills to all applicable National, International, Federal, State, Provincial and local authorities

7. Handling & Storage

Handling: Use only with adequate ventilation. Avoid all contact of product with eyes, skin and clothing. Wear OSHA standard full face shield. Wear goggles, face shield, gloves, apron and footwear impervious to material. Wash thoroughly after handling and before eating, smoking or using toilet facilities. Do not swallow or inhale vapors. Do not eat, drink or smoke in work areas. NEVER POUR WATER INTO THIS PRODUCT. When diluting, always add this product slowly to water.
Storage: Do not store product at elevated temperatures. Store this product in a cool dry place that has adequate ventilation. Maximum storage temperature is 120°F (49°C). Do not store near food or feed products. Keep separated from strong oxidants, strong acids, and metals. Keep containers closed when not in use.
Container Warnings: Store containers in a cool, dry location, away from direct sunlight, sources of intense heat or where freezing is possible. Material should be stored in secondary containers or in a diked area, as appropriate. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid and/or vapor) and should not be reused. Empty containers should be completely drained, properly closed and promptly returned to a drum reconditioner or disposed of properly.

8. Exposure Controls and Personal Protection

Occupational Exposure Limits

Ingredient	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Monoethanol amine	3 ppm	N/E	6 ppm	N/E
Ethylene glycol monophenyl ether	N/E	N/E	N/E	N/E
Propylene glycol monobutyl ether	N/E	N/E	N/E	N/E
Sodium Xylenesulfonate	N/E	N/E	N/E	N/E
Dodecylbenzene Sulfonic Acid	N/E	N/E	1 mg/m^3	N/E
Ethylenediaminetetraacetate	N/E	N/E	N/E	N/E
Alcohols C_6-C_{12}, ethoxylated	N/E	N/E	N/E	N/E

(N/E) – not established

Other Exposure Limits: Under conditions which may generate mists, observe OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter for oil mists
Engineering Controls: If adequate ventilation is not available or there is a potential for airborne exposure above the exposure limits, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material.
Gloves: Nitrile or oil resistant gloves
Protective Clothing: Wear impervious protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Users should determine acceptable performance characteristics of protective clothing. Consider physical requirements and other substances present when selecting protective clothing.
Eye Protection: Wear eye protection such as safety glasses, chemical goggles, or face shields if engineering controls or work practices are not adequate to prevent eye contact.
Skin Protection: Wear impervious protective clothing to prevent skin contact.
Respiratory Protection: If user operations generate an oil mist, determine if airborne concentrations are below the OSHA Permissible Limit (PEL) of 5 mg/m3 or other applicable standards for mineral oil mist. If not, wear a NIOSH approved respirator that provides adequate protection from the measured concentrations of this material. For air- purifying respirators use a particulate cartridge.

9. Physical and Chemical Properties

Flash Point: Not applicable
Specific Gravity: 1.112
Upper Flammable Limit (UEL): Not applicable
Lower Flammable Limit (LEL): Not applicable
Vapor Pressure (mm Hg @ 20°C): 17.5
Percent VOC: 10.0 %wt
Evaporation Rate (Butyl Acetate = 1): Not applicable
pH: 11-12
Boiling Point: Not applicable
Melting Point: Not available
Appearance: Light red liquid
Odor: Sweet
Solubility in Water: 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: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Materials to Avoid: Reacts violently with fire extinguishers containing water. This product is a strong base, reacts violently with acids and is corrosive. It will react with water to generate sufficient heat to ignite combustible materials. Reacts violently with strong acids, causing fire & explosion hazard. Attacks many plastics, rubber, coatings, many metals, such as aluminum, zinc, tin & lead forming flammable/explosive gas (hydrogen). Reacts with ammonium salts to produce ammonia & causing fire hazard. Rapidly absorbs carbon dioxide & water from the air. Contact with water will generate heat.
Polymerization: Not expected to occur during conditions of normal use.
Thermal Decomposition: sodium oxide & hydroxide, carbon oxides from heating
Conditions to Avoid: Isolate from extreme heat and open flame.

11. Toxicological Information

Routes of Exposure: Skin, eyes, ingestion and inhalation
Target Organs: Skin, eyes, upper respiratory tract

Acute Exposure

Ingestion: Harmful or fatal if swallowed.
Eye Contact: Severe burns to eyes, redness, tearing, blurred vision.
Skin Contact: Severe burns to skin, defatting and dermatitis. Symptoms may include redness, edema, drying and cracking of skin
Inhalation: Severe respiratory tract irritation may occur. Vapor harmful. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract. Exposure to a high concentration of vapor or mist may cause severe irritation to the nose and upper respiratory tract
Dermal Sensitization: No data available to indicate product or components that may a dermal sensitizer

11. Toxicological Information continued

Inhalation Sensitization: No data available to indicate product or components that may a dermal sensitizer inhalation sensitizer.
Carcinogenicity: This product does not contain greater than 0.1%any of the chemicals listed on the United States National Toxicology Program Annual Reports on Carcinogens, The International Agency for Cancer Research Monographs and United State's Occupational Safety and Health Administrations 29CFR 1910.10 Subpart Z List.
Mutagenicity: This product is not reported to produce mutagenic effects in humans.
Embryotoxicity: This product is not reported to produce embryotoxic effects in humans.
Teratogenicity: This product is not reported to produce teratogenic effects in humans.
Reproductive toxicity: This product is not reported to cause reproductive effects in humans.

Additional Toxicological Information:

Acute toxicity

Monoethanol amine
Acute Oral Toxicity LD50: 1,720mg/kg (rat)
Acute Dermal Toxicity LD50: 1,000 mg/kg (rabbit)

Ethylene glycol monophenyl ether
Acute Oral Toxicity LD50: 1,260 mg/kg (rat)
Acute Dermal Toxicity LD50: 14,422 mg/kg (rat)

Propylene glycol monobutyl ether
Acute Oral Toxicity LD50: 5,009 mg/kg (rat)

Sodium Xylenesulfonate
Acute Oral Toxicity LD50: >5g/kg (rat)

Dodecylbenzene Sulfonic Acid
Acute Oral Toxicity LD50: 650mg/kg (rat)

12. Environmental and Ecological Information

Ecotoxicity
The ecotoxicity of this product has not been determined

Sodium Xylenesulfonate:
96 hour/LC50/ Fathead Minnow/ >1000 mg/L
48 hour/EC50/ *Daphnia manga/* >1000 mg/L
48 hour / EC50 / Crustacea (*Artemiea* species) / >400 mg/L

Dodecylbenzene Sulfonic Acid
96 hour/LC50/ Rainbow trout/ 10.8 mg/L (static conditions)
48 hour/EC50/ Water flea (*Daphnia*)/ 11-23 mg/L

Ethylene glycol monophenyl ether
96 hour/LC50/ Golden orfe (*Leuciscus idus)*/ > 100 mg/L

12. Environmental and Ecological Information continued

Environmental Fate

Biodegradation: This material is partially biodegradable
Bioaccumulation: Not established
Mobility in soil: Not established

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 United States Federal Regulations 40CFR 261.4 (b)(4). Dispose of product in accordance with all applicable National, Federal, State, Provincial and local laws and regulations. Under RCRA, it is the responsibility of the user of this product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Do not re-use empty containers

14. Transport Information

US DOT Classification Non-Bulk and Bulk: Not regulated

IMDG and IATA/ICAO Classification: Not regulated

ADR: Not regulated as a hazardous material or dangerous good for transportation.

ADNR: Not regulated as a hazardous material or dangerous good for transportation.

RID: Not regulated as a hazardous material or dangerous good for transportation.

Canadian TDG: Not regulated as a hazardous material or dangerous good for transportation.

15. Regulatory Information

Hazard Symbols

GHS Symbol:

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: A related product 'Trisodium NTA monohydrate' is known to the state of California to cause cancer and is reportable under Proposition 65.

US EPA SARA Title III and CERCLA Listings and Reportable Quantities
This product does not contain any of the chemicals listed on the US EPA's SARA Title III and CERCLA Lists.

US EPA Section 311/313 Classifications None

15. Regulatory Information continued

US EPA Section 313 Chemicals This product does not contain any of the chemicals listed on the US EPA's Section 313 List.

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: This product is not considered to be a WHMIS hazard

16. Other Information

Hazardous Materials Information System (U.S.A)	**Health: 2** **Fire: 0** **Reactivity: 0**
National Fire Protection Agency System (U.S.A.)	**Health: 2** **Fire: 0** **Reactivity: 0**

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

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