

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: Red Marvel (ENV-309)

Other means of identification: Not applicable

Recommended use: Hard surface cleaner

Restrictions on use: Industrial cleaner

Manufacturer: EnviroWay

2241 Hanselman Ave.

Saskatoon, SK S7L 6A7, Canada

Tel: 306-244-7727

Fax: 306-244-7772

Toll free: 1-888-274-0862, www.enviroway.ca

Emergency phone:

Leak and Spill: 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan

1-866-845-6037 (Environment Canada) for anywhere else

Poison Control: 1-866-454-1212 (Saskatchewan)

SECTION 2: HAZARD IDENTIFICATION

Hazard classification

Acute toxicity (oral)	Category 5
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 1
Skin sensitization	Category 1

Signal word Danger



Hazard statements

May be harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Precautionary statements

Prevention Wash hands thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and face protection.

Contaminated work clothing should not be allowed out of the workplace.

Avoid breathing mist, vapours or spray.

- Response** Call a POISON CENTER/doctor if you feel unwell.
 IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON CENTER/doctor.
- Disposal** Dispose of in accordance with local regulations at government approved waste sites.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

The following ingredients have hazardous properties:

Chemical Name	CAS #	% by weight
Lauryl alcohol ethylene oxide	9002-92-0	20-30
Sodium, C10-16 benzenesulfonate	68081-81-2	5-10
Urea, monohydrochloride	506-89-8	<5
Citric acid	77-92-9	1-5
Sodium xylene sulfonate	1300-72-7	1-5

Ingredients not shown are either not hazardous or present below cut-off values. Ranges shown are due to batch-to-batch variation.

SECTION 4: FIRST AID MEASURES

- IF SWALLOWED:** Rinse Mouth. Call a POISON CENTRE/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water. Remove contaminated clothing and wash before reuse. If skin irritation or rash occurs, seek medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Seek immediate medical attention.
IF INHALED: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Most important symptoms/effects/effects acute and delayed: See Section 11 for more detailed information on health effects and symptoms.

Immediate medical attention and special treatment needed: Not available

SECTION 5: FIRE FIGHTING MEASURES

- Flammable:** No
Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media: None
Flashpoint: Not available
Special Fire Fighting Procedures: Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.
Hazardous Combustion Products: Carbon monoxide

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Wear protective gloves, clothing. Wear eye and face protection when there is chance of splash back.

Methods and materials for containment and cleaning up: Flush liquid to sewer with plenty of water if the spill is small. Large spills should be contained by diking with soil or other non-combustible absorbent material and then put into dot approved containers.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Keep containers tightly closed when not in use. Do not pressure empty containers. Wash thoroughly after handling.

Storage Requirements: Store in a cool, dry, well-ventilated place away from incompatible materials such as strong oxidizers. Do not allow to freeze. Store away from direct sunlight and heat.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Exposure limit – ACGIH	Exposure limit – OSHA	Exposure limit – IDLH
Lauryl alcohol ethylene oxide	Not available	Not available	Not available
sodium c10-16 benzenesulfonate	Not available	Not available	Not available
Urea, Monohydrochloride	Not available	Not available	Not available
Citric Acid	Not available	Not available	Not available
Sodium xylene sulfonate	Not available	Not available	Not available

Gloves: Wear protective gloves

Respirator: Not required for regular use

Eye: Where there is potential for eye contact, wear chemical goggles and have eye-flushing equipment immediately available.

Engineering measures: Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

Footwear: Not required for regular use

Clothing: Wear protective clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red liquid

Odour: Mild floral scent

Odour Threshold (ppm): Information not available

pH: 2.1

Melting point/Freezing Point: Information not available

Initial Boiling Point/Range: Information not available

Flash point: Information not available

Evaporation Rate: Information not available

Flammability: Not flammable

Upper/lower flammability/explosive limit: Information not available

Vapour Pressure (mmHg): Information not available

Vapour Density (air = 1): Information not available

Relative density: Information not available

Solubility in Water: Miscible

Partition coefficient: Information not available



Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: Stable

Incompatibility with Other Substances: Yes

Reactivity: Non-flammable but will burn on prolonged exposure to flame or high temperature. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc. The product may react with alkalis.

Materials to Avoid: Avoid strong alkalis and strong oxidizers. Avoid prolonged contact with metals.

Conditions to avoid: None

Hazardous Decomposition Products: May release carbon monoxide, carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	LD50 oral (mg/kg) (rat)	LD50 dermal (mg/kg)	LC50 inhalation (mg/L)
Lauryl alcohol ethylene oxide	4150	72000	8600
sodium c10-16 benzenesulfonate	1080	>2000	Not available
Urea, Monohydrochloride	1121	Not available	Not available
Citric Acid	3000	Not available	Not available
Sodium xylene sulfonate	7200	2000	Not available

EFFECTS OF ACUTE EXPOSURE:

Ingestion: May be harmful if swallowed.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye damage.

Inhalation: Generation of mists may cause irritation of respiratory tract.

Germ cell mutagenicity: Not applicable

Carcinogenicity: Not applicable

Reproductive toxicity: Not applicable

STOT single exposure: Not applicable

STOT repeated exposure: Not applicable

Aspiration hazard: Not applicable

Routes of exposure: Ingestion, inhalation, skin/eye exposure

EFFECTS OF CHRONIC EXPOSURE:

Skin Contact: Not known.

Eye Contact: Not known.

Ingestion: Not known



Numerical measures of toxicity:

Oral: LD50 4,597 mg/kg

Dermal: LD50 40,773 mg/kg

Inhalation: LC50 169 mg/L

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient	Fish	Crustaceans	Algae
Lauryl alcohol ethylene oxide	LC ₅₀ (96h): 1400 mg/L	LC ₅₀ (48h): 6460 mg/L	Not available
sodium c10-16 benzenesulfonate	LC ₅₀ (96h): 3 mg/L	EC ₅₀ (48h): 1.62 - 9.3 mg/L	EC ₅₀ (72h): 29 mg/L
Urea, Monohydrochloride	Not available	Not available	Not available
Citric Acid	LC ₅₀ (96h): 440-706 mg/L	Not available	Not available
Sodium Xylene Sulfonate	LC ₅₀ (96h): >1000 mg/L	EC ₅₀ (48h): >40.3 mg/L	EC ₅₀ (96h): >230 mg/L

Persistence and Degradability: Expected to be >50% biodegradable.

Bioaccumulation/Accumulation: No information available.

Mobility: No information available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local regulations at government approved waste sites.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information: None

TDG (Canada)

TDG Proper Shipping Name: Not regulated

Hazard Class: Not regulated

UN Number: Not regulated

Packing Group: Not regulated

Note: No additional remark.

Marine Pollutant: None

SECTION 15: REGULATORY INFORMATION

Canadian DSL Inventory Status: All ingredients are specified on the Domestic Substances List or exempt. No safety, health, or environmental regulations specific to this product are known.



SECTION 16: OTHER INFORMATION

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