



Shower Sense

Safe Acid Cleaner

DESCRIPTION

Shower Sense is a concentrated shower cleaner and descaler that is formulated with a breakthrough acid technology that is much safer to use than traditional acid cleaners. This powerful, foaming shower room cleaner is safer to use for both product users and surfaces.

Shower Sense is highly effective for foaming down shower rooms, restrooms, and other areas. **Shower Sense** does not have an acidic odor and gives great results in hard water conditions.

SPECIAL INFORMATION

Avoid contacting **Shower Sense** with eyes and skin. Store upright at temperatures above freezing and do not mix with Bleach or any other cleaners. Always add **Shower Sense** to water, never water to acid.

DIRECTIONS

Foam on **Shower Sense** at dilution rate required, wait 5-15 minutes and rinse thoroughly. Agitation may be necessary for heavier soils.

Dilution Ratios

Light soiling:

Foam on Shower Sense at 240 ml per 3.78 L water (8 oz/gallon) (1:16), wait 5-10 minutes, agitate if necessary and rinse thoroughly.

Moderate soiling:

Foam on Shower Sense at 300 ml per 3.78 L water (10 oz/gallon) (1:12), wait 10 minutes then agitate with doodlebug or blue pad. Rinse thoroughly.

Heavy soiling:

Foam on Shower Sense at 375 ml per 3.78 L water (12.5 oz/gallon) (1:10), wait 10-15 minutes then agitate with doodlebug or blue pad. Rinse thoroughly.

PHYSICAL DATA

Appearance	Clear liquid
Color	Dark green
Foam	High
Odor	None
pH (1%)	1.0 – 2.0

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **SHOWER SENSE**

WHMIS CODE: E
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
 (urea monohydrochloride)
 Hazard Class: Class 8, P.G. III
 UN Number: UN 1760 (Ltd.Qty)

Product Use: *Foaming safe acid cleaner.*

HMIS	
2	Health
0	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves
 C=Goggles, Gloves and Apron

M-chem Technologies Inc.
 1607 Derwent Way
 Delta, BC V3M 6K8, Canada
 Phone: (604) 526-5655

EMERGENCY PHONE
 Canada: Canutec 613-996-6666
 U.S.A.: Chemtrec 800-424-9300

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
ORGANIC SALT	506-89-8	30.0-60.0	N/A	N/D
ALCOHOL ETHOXYLATE	68439-46-3	1.0-5.0	N/A	N/A
LD50 (oral rat) 1376 mg/kg LD50 (dermal rabbit) >2 g/kg				
LAURYL DIMETHYLAMINE OXIDE	1643-20-5	1.0-5.0	N/D	N/D
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning & Community Right-to-know Act of 1986.				
LD50 (oral rat) 400 mg/kg LD50 (dermal) N/D LC50 N/D				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear, green / no odour
Physical State: Liquid.
Coeff. Water/Oil Dist: Greater than 1.0
Boiling Point: N/D
Melting Point: N/A
Evaporation Rate: N/D
Vapor Pressure (mm HG): N/D
Vapor Density: N/D
Solubility in Water: Soluble
pH: 1.5 @ 1% solution.
Specific Gravity: 1.10 @ 20°C
Odor Threshold: No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC)
Flammable Limits: None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Prolonged contact with reactive metals (i.e. aluminum, tin, zinc, etc.) May form flammable and explosive hydrogen gas in confined areas.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.
Extinguishing Media: Not flammable.
Auto ignition Temperature: None known.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions.
Incompatibility (material to avoid): Avoid oxidizers and high heat. Avoid contact with strong alkali or soft metals like aluminum, zinc etc.
Hazardous Decomposition Products: May liberate oxides of carbon and nitrogen and chlorine.
Hazardous Polymerization: Will not Occur.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient.
Irritancy of Product: Corrosive to aluminum metal and eyes.
Teratogenicity: None known.
Name of Toxicological Synergistic Product: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation, defatting or dermatitis.
Effects of Acute Exposure to Product: Product exposure may irritate or burn eyes. Product is non-corrosive to skin. Inhaling vapors or mists may cause respiratory discomfort such as breathing problems, irritation, coughing, etc. Ingestion may cause gastrointestinal and abdominal discomfort and may be harmful or fatal.
Routes of Entry: Skin, eyes and respiratory.
Carcinogenicity: Non hazardous.
Mutagenicity: Not mutagenic (tested by Ames Assay)
Reproductive Toxicity: None known.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Use a NIOSH/MSHA approved acid gas respirator for vapors and a dust/mist respirator for misting or spraying operations.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or butyl rubber, nitrile or neoprene gloves.
Eye Protection: Chemical goggles, safety goggles or glasses.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles (bleaches, alkalies). Keep container closed when not in use. Do not mix with any other chemicals. Store at temperatures below 30°C (86°F) and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spills. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Store at temperatures below 30°C (86°F) and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid: If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE