

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **ROUGH RIDER II**

WHMIS CODE: E, D2B
 Proper Shipping Name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (potassium hydroxide, sodium metasilicate)
 Hazard Class: Class 8, P.G. II
 UN Number: UN 3266 (Ltd.Qty.)

HMIS	
3	Health
0	Flammability
0	Reactivity
B	Personal

Product Use: *Multipurpose cleaner degreaser.*

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

Maxim 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
2-PHENOXYETHANOL	122-99-6	1.0 – 5.0	No Data	No Data
LD50 (oral rat) 1260 mg/kg				
LD50 (dermal) 14422 mg/kg (rat)				
LD50 (dermal) 9.5g/kg (rabbit)				
DIPROPYLENE GYCOL MONOMETHYL ETHER	34590-94-8	1.0 – 5.0	No Data	No Data
LD50 (oral rat) 5135 mg/kg				
LD50 (dermal) 9.5 g/kg (rabbit)				
SODIUM METASILICATE	6834-92-0	1.0-5.0	No Data	No Data
LD50 (oral rat) 1153 mg/kg				
LD50 (dermal) Not Available				
LC50 Not Available				
POTASSIUM HYDROXIDE	1310-58-3	1.0-5.0	N/A	2 ppm
LD50 (oral rat) 273 mg/kg				
LD50 (dermal) Not Available				
LC50 Not Available				
TRIETHANOLAMINE	102-71-6	1.0-5.0	N/D	5 mg/m3 TWA
ALARA (As Low As Reasonably Achievable): 5 mg/m3 - Exposure limits for British Columbia				
LD50 (oral rat) 8000 mg/kg				
LD50 (dermal) > 20 mg/kg				
LC50 No Data				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear pink, characteristic odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 - 14.0
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.05 @ 20°C
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Flammable hydrogen gas may liberate upon prolonged contact with sensitive metals (i.e. aluminum, zinc, etc.).
Hazardous Combustion Products: Oxides of carbon, phosphorus, and other unidentifiable organic compounds.
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.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Strong oxidizers and acids.
Hazardous Decomposition Products: Oxides of carbon, phosphorus, and other unidentifiable organic compounds.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Teratogenicity:** None known.
Routes of Entry: skin and eye contact, and inhalation. **Sensitization:** None known. **Reproductive Toxicity:** None known.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Mutagenicity:** None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause allergic skin reaction, skin irritation, or dermatitis, respiratory disorder.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Prolonged inhalation of vapors or mists may cause breathing problems, headaches and nausea. Also, may be harmful is absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.
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 face shield.
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. 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. Pump spills into an approved waste container. 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: Dec. 24, 2014
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE

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INGREDIENT	CAS NO.	RANGE %	PEL	TLV
ETHYLENE GLYCOL MONOBUTYLETHER Exposure Limit Skin: 25 ppm. The above item is reported per 40 CFR 372, Section 313 of Emergency Planning & Community Right-To-Know Act of 1986. LD50 (oral rat) 1746 mg/kg LD50 (dermal) 435 mg/kg (rabbit) LC50 700 ppm, 7hr. (mouse)	111-76-2	5.0-10	No Data	25 ppm TWA
SODIUM METASILICATE LD50 (oral rat) 1153 mg/kg LD50 (dermal) Not Available LC50 Not Available	6834-92-0	1.0-5.0	No Data	No Data
POTASSIUM HYDROXIDE LD50 (oral rat) 273 mg/kg LD50 (dermal) Not Available LC50 Not Available	1310-58-3	1.0-5.0	N/A	2 ppm
TRIETHANOLAMINE ALARA (As Low As Reasonably Achievable): 5 mg/m3 - Exposure limits for British Columbia LD50 (oral rat) 8000 mg/kg LD50 (dermal) > 20 mg/kg LC50 No Data	102-71-6	1.0-5.0	N/D	5 mg/m3 TWA

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear pink, characteristic odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 - 14.0
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.042 @ 20°C
Coeff. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

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Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Mutagenicity:** None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause allergic skin reaction, skin irritation, or dermatitis, respiratory disorder and may also cause blood disorders through skin absorption of ethylene glycol monobutyl ether (based on animal test data).
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Prolonged inhalation of vapors or mists may cause breathing problems, headaches and nausea. Also, may be harmful is absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

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PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: Oct. 3, 2012
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