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MSDS GEL2000-3 / Rev February 26, 2003

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**MATERIAL SAFETY DATA SHEET**

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**SECTION I. PRODUCT INFORMATION**

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**Product Name:** TOUGH GARD GEL®**Part Number:** TG102-1G, TG102-2G, TG102-4S**Product use:** Water-based solution to protect welding torch components from excessive spatter accumulation.**WHMIS DESIGNATION:** NOT CONTROLLED**OSHA DESIGNATION:** NON-REGULATED

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**SECTION II. COMPOSITION/ INFORMATION ON INGREDIENTS**

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NO HAZARDOUS MATERIALS ABOVE THE LEVELS STIPULATED BY FEDERAL REGULATIONS

Carrageenan	9000-07-1	<5%
Magnesium Nitrate	10377-60-3	<230 ppm
Isothiazolin A	26172-55-4	<50 ppm
Isothiazolin B	2682-20-4	<10 ppm
Disodium salt	3844-45-9	<50 ppm
Magnesium Chloride	7786-30-3	<10 ppm

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**SECTION III. PHYSICAL DATA**

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Boiling point @ 760 mmHg: 100C  
Specific Gravity: 1.037 (Water =1.0)  
Freezing Point: 0C  
Evaporation Rate: 0.35 (n-Butyl acetate=1.00)  
Vapor density: Not determined  
Vapor pressure: 4 mm Hg @ 20C  
pH: 5-7  
Solubility in water by wt: 100% water-soluble  
Appearance: Green translucent liquid  
Odor: odorless  
Physical state: liquid

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**SECTION IV. FIRE OR EXPLOSION HAZARD**

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**Flammability: NON-FLAMMABLE**

Extinguishing media: N/A

Flash point: N/A

Lower flammable limit (%volume): N/A

Upper flammable limit (%volume): N/A

Auto ignition Temp: N/A

Impact/shock sensitivity: N/A

Sensitivity to Static Discharge: N/A

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**SECTION V: REACTIVITY DATA**

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**Stability: chemically stable****Conditions to Avoid:** None currently known**Incompatibility** (materials to avoid): Normally unreactive; however avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds**Hazardous Combustion or Decomposition Products:** carbon monoxide and/or carbon dioxide

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**SECTION VI. POTENTIAL HEALTH EFFECTS**

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**Skin contact:** No evidence of harmful effects from available information

**Skin Absorption:** No evidence of harmful effects from available information

**Eye contact:** No evidence of harmful effects from available information

**Ingestion:** No evidence of harmful effects from available information

**Inhalation:** No evidence of harmful effects from available information

**Exposure Limits:** N/A

**Irritancy of product:** none

**Teratogenicity:** No

**Mutagenicity:** No

**Carcinogenicity:** Not known

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**SECTION VII: PREVENTIVE MEASURES**

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**Personal Protective Equipment:** General protective equipment is expected to be satisfactory.

**Engineering Controls:** General room ventilation is expected to be satisfactory.

**Leak/Spill Procedures:** Spills can be flushed with plenty of water.

**Waste Disposal:** BIODEGRADABLE in a biological wastewater treatment plant.

**Handling Procedures and Equipment**

*Storage requirements:* Store in closed containers at 2-30°C

*Shipping information:* Do not freeze

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**SECTION VIII: FIRST AID MEASURES**

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**Skin:** wash with plenty of water

**Eye:** flush with plenty of water

**Inhalation:** no emergency care anticipated.

**Ingestion:** no emergency care anticipated

**Notes to Physician:** Toxicology studies on the main ingredients of this product have shown these to be of very low acute toxicity and nonirritating. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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**SECTION IX: REGULATORY INFORMATION**

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**Chemicals on Reporting Rules (CORR)**

USA Federal regulation: 4996-9 Date: Feb 28, 1996: NONE

**Toxic Substances Control Act (TSCA)**

The ingredients of this product are on the TSCA inventory

**Domestic Substances List (DSL)**

The ingredients of this product are on the Canadian Domestic Substances List (DSL).

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**SECTION IX: PREPARATION INFORMATION**

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**MANUFACTURER** Tregaskiss Ltd, 2570 North Talbot Rd, Oldcastle, ON, N0R 1L0 (519) 737 6966

**PREPARED BY:** R&D Department ext 275

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