



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TOUGH GARD®

Part Number: TG101-01, TG101-05, TG101-14S, TG101-32SP, TG101-55.

Product use: Water-based solution to protect welding torch components from excessive spatter accumulation.

MANUFACTURER: Tregaskiss Welding Products, P.O. Box 1768, Troy, MI 48099-1768,
Phone: 1-800-787-6966, Fax: 1-800-665-0400

2. COMPOSITION INFORMATION ON INGREDIENTS

Product: Water based mixture (preparation).

Chemical Name	CAS #	Weight %	GADSL threshold
Water	7732-18-5	80 – 90 %	Not in list
Ethoxylate	84133-50-6	<0.5%	Not in list
Magnesium Nitrate	10377-60-3	<230 ppm	1000 ppm (0.1%)
Unreacted secondary alcohol	126950-60-5	<50 ppm	Not in list

3. HAZARDS IDENTIFICATION

WHMIS designation: Not controlled.

OSHA designation (29 CFR 1900.1200): Non-regulated.

Declaration According to 91/115/EEC, 93/112/EEC

No hazardous materials above the levels stipulated by 88/379/EEC.

Skin contact: Non-corrosive, Non-irritant for skin.

Skin Absorption: Non-permeable to skin.

Eye contact: Non-irritating, Non-corrosive to the eyes.

Ingestion: Non-hazardous in case of ingestion.

Inhalation: Non-hazardous in case of inhalation. Non-irritant, Non-sensitizer, Non-corrosive for lungs.

Exposure Limits: Not available (Canadian ACGIH); No hazardous ingredients (US OSHA).

Irritancy of product: None.

Teratogenicity: No.

Mutagenicity: No.

Carcinogenicity: Not known.

4: FIRST AID MEASURES

Skin: Wash with running water and soap. Cold water may be used.

Eye: Flush with running water for at least 15 minutes. Cold water may be used.

Inhalation: No emergency care anticipated.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

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.

5. FIRE-FIGHTING MEASURES

Flammability: Non-flammable.

Fire hazards: Not applicable.

Explosion hazards: Not applicable.



6. ACCIDENTAL RELEASE MEASURE

Personal precautions: General protective equipment is expected to be satisfactory.

Environmental precautions: Dispose according to local and regional authority requirements.

Method of cleaning up: Spills can be mopped or absorbed by an inert material and flushed with water.

7. HANDLING AND STORAGE

Handling: Avoid breathing spray mists.

Storage: Keep container tightly closed. Store at 4 – 30 °C.

Shelf life: two (2) years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control: General room ventilation is expected to be satisfactory.

Personal protection:

Skin Protection: Wear protective gloves and clean body-covering clothing.

Respiratory: Not applicable.

Eye Protection: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH: 5 – 7.

Boiling point @ 760 mmHg: 100 °C.

Freezing Point: 0 °C.

Flash point: Non-flammable.

Auto ignition Temperature: N/A.

Impact/shock sensitivity: N/A.

Sensitivity to Static Discharge: N/A.

Evaporation Rate: < 0.01 (n-Butyl acetate = 1.00).

Vapor pressure: < 0.01 kPa @ 20 °C.

Vapor density: Not determined.

VOC content: 0 %.

Specific Gravity: 1.037 (Water = 1.0).

Viscosity: 1.02 centipoises at 25 °C

Solubility in water by wt: 100 % water-soluble.

Appearance: Green translucent liquid.

Odor: Odorless.

10: STABILITY AND REACTIVITY

Stability: Chemically stable.

Conditions to Avoid: None currently known.

Incompatibility (materials to avoid): Normally non-reactive; however avoid strong bases at high temperatures, strong acids, strong oxidizing agents, and materials reactive with hydroxyl compounds.

11: TOXICOLOGICAL INFORMATION

Skin contact: Non-corrosive, Non-irritant, Non-sensitizer, Non-permeable to skin.

Eye contact: Non-irritating, Non-corrosive to the eyes.



Inhalation: Non-hazardous in case of inhalation. Non-irritant, Non-sensitizer, Non-corrosive for lungs.

Toxicity to animals: Acute oral toxicity (LD50): 43600 mg/kg (rat);
Acute dermal toxicity (LD50): 20000 mg/kg (rabbit).

Teratogenicity: No.

The major ingredient (besides the water) has been investigated as a mutagen.

Cancer List (NTP Carcinogen)

Known: No.

Anticipated: No.

IARC Category: None.

12. ECOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local environmental control regulations.

Biodegradable in a biological wastewater treatment plant.

14. TRANSPORT INFORMATION

Canada Transportation of Dangerous Goods (TDG) Information: Not a TDG controlled material.

International maritime Dangerous Goods (IMDG) Information: Not an IMDG controlled material.

United State Department of Transportation (DOT) Information: Not a DOT controlled material.

Shipping information: Do not freeze.

15: REGULATORY INFORMATION

WHMIS: Not controlled under WHMIS (Canada).

Canada Domestic Substances List (DSL): This product and / or all of its components are on the DSL.

(U.S.A.) **HCS Classification:** Not controlled under the HCS.

(U.S.A.) **Regulatory List:** This product and / or all of its components are on the TSCA inventory list.

(E.U.) **EINECS:** The components of this product are on the EINECS inventory or are exempt from EINECS inventory requirements.

Hazardous Material Information System (U.S.A.):

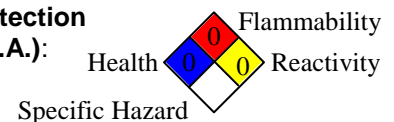
Health: 0

Flammability: 0,

Reactivity: 0,

Personal protection: B.

National Fire Protection Association (U.S.A.):



16: OTHER INFORMATION

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