

ATTN Mike Kochei

M.S.D.S MATERIAL SAFETY DATA SHEET

TOUGH GARD LIQUID

TOUGH GARD GEL

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TOUGH GARD® LIQUID

MSDS TG1996-1999-03

SECTION I. PRODUCT INFORMATION

Product Name: Tough Gard®
 Part Number: TG-101-055, TG-101-01, TG-101-14S, TG-101-32, TG-101-32SP
 Chemical Name: See Below
 Formula: See Below
 MOLECULAR WEIGHT: N/A
 CAS#: N/A

Product use: This is a proprietary water-based solution to protect front-end compor excessive spatter accumulation during robotic or automatic arc welding.

WHMIS Classification: Not Controlled

This product does not classify in any of the categories stipulated in the Hazardous Pro (P.C. 1987-2721 Dec 31, 1987)
 This product does not classify in any of the classes specified in the Controlled Regulations (P.C. 1987-2721 Dec 31 1987)

SECTION II. HAZARDOUS INGREDIENTS

This product contains no hazardous materials above the trace levels stipulated by the Products Regulations (P.C. 1987-2721 Dec 31 1987)

Chemical Name	CAS #	Weight %
NJ TSR-LQX	N/A	Trade Secret
Distilled Water	7732-18-5	<70.000%
Octylphenoxyethoxyethanol	9036-19-5	<0.500%
Isothiazolin A	26172-55-4	Trace(<50ppm)
Isothiazolin B	2682-20-4	Trace(<10ppm)
Magnesium Chloride	7786-30-3	Trace(<10ppm)
Magnesium Nitrate	10377-60-3	Trace(<200ppm)

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

SECTION IV. FIRE OR EXPLOSION HAZARD[\[Top\]](#)

Flammable: 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
Hazardous combustion Products: N/A

SECTION V: REACTIVITY DATA[\[Top\]](#)

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

SECTION VI. POTENTIAL HEALTH EFFECTS[\[Top\]](#)

Skin contact: Not evidence of harmful effects from available information
Skin Absorption: Not evidence of harmful effects from available information
Eye contact: Not evidence of harmful effects from available information
Ingestion: Not evidence of harmful effects from available information
Inhalation: Not evidence of harmful effects from available information
Exposure Limits: N/A
Irritancy of product: none
Teratogenicity: No
Mutagenicity: No
Carcinogenicity: Not known

SECTION VII: PREVENTIVE MEASURES[\[Top\]](#)

Personal Protective Equipment: General protective equipment is expected to be satisfactory.
Engineering Controls: General (mechanical) room ventilation is expected to be satisfactory.
Leak/Spill Procedures: Spills can be flushed with large amounts of water.
Waste Disposal: BIODEGRADABLE in a biological wastewater treatment plant.

Handling Procedures and Equipment
 Storage requirements: Store in closed containers at 5-20 C
 Shipping information: Do not let freeze outside

SECTION VIII: FIRST AID MEASURES
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Skin: wash with soap and water
 Eye: flush with plenty of water for several minutes
 Inhalation: no emergency care anticipated.
 Ingestion: no emergency care anticipated

SECTION IX: REGULATORY INFORMATION
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Chemicals on Reporting Rules (CORR)
 USA Federal regulation: 4996-9 Date: Feb 28, 1996

Chemical Name	CAS #	Weight %
Octylphenoxypolyethoxyethanol	9036-19-5	<0.500%

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).

SECTION IX: PREPARATION INFORMATION
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