



part #

TG101-01
TG101-55

MSDS TG2012E / Aug. 12, 2013

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TOUGH GARD® Anti-Spatter Liquid

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, 2570 North Talbot Road, Windsor, Ontario, Canada N0R 1L0,
Phone: 1-877-737-3111, Fax: 1-877-737-2111, E-mail: techsupport@tregaskiss.com
Emergency phone: 1-519-7373039 (8:00 am to 5:00 pm, time zone: -5)

2. HAZARDS IDENTIFICATION

GHS toxicity category: Not toxic

ECHA No hazardous substances by Directive EC 1272/2008 or 1907/2006 (**REACH**). No substances or preparations in the list of SVHC. Declaration According to 91/115/EEC, 93/112/EEC: No hazardous materials above the levels stipulated by 88/379/EEC.

WHMIS designation: Not controlled.

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

Skin contact: Non-corrosive, May cause sensitization of susceptible persons by skin contact.

Eye contact: Non-corrosive to the eyes. May cause eye irritation.

Ingestion: Non-hazardous in case of ingestion. May cause vomiting. Avoid swallowing the product.

Inhalation: May cause nose, throat, or lung irritation. Avoid inhaling mist or fume.

Exposure Limits: Refer to the WEEL data in section 8.

Teratogenicity: Not known.

Carcinogenicity: Not known.

3. COMPOSITION INFORMATION ON INGREDIENTS

Product: Water based mixture (preparation).

Chemical Name	CAS #	Weight %	GADSL threshold	Class. 67/548/EC
Water	7732-18-5	80 – 90 %	Not in list	Not in list
Ethoxylate	84133-50-6	0.47%	Not in list	Not in list
Magnesium Nitrate	10377-60-3	<230 ppm	Not in list	Not in list
Poly(ethylene oxide)	25322-68-2	150 ppm	Not in list	Not in list
5-Chloro-2-methyl-4-isothiazolin-3-ketone	26172-55-4	<12.5 ppm	1000 ppm (0.1%)	Not in list
2-Methyl-4-isothiazolin-3-ketone	2682-20-4	<4.5 ppm	1000 ppm (0.1%)	Not in list
Proprietary Ingredients (not regulated)		10-20%	Not in list	Not in list

4: FIRST AID MEASURES

Skin: Wash with running water and soap.

Eye: Flush with running water for at least 15 minutes. Get medical attention if irritation develops.

Inhalation: Remove to fresh air. Assist in breathing if necessary. Get medical attention.

Ingestion: Rinse mouth and then drink plenty of water. 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.

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.

Do not allow to enter drains or waterways.

6. ACCIDENTAL RELEASE MEASURE

Personal precautions: Wear chemical resistant goggles and gloves. Avoid breathing dust / mist. Spilled material may cause a slipping hazard.

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

Method of cleaning up: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Place in a suitable containers for disposal.

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

Workplace Environmental Exposure Level (WEEL)

Chemical Name	CAS #	Type	Value
5-Chloro-2-methyl-4-isothiazolin-3-ketone	26172-55-4	TWA	0.076 mg/m ³
		STEL	0.23 mg/m ³
2-Methyl-4-isothiazolin-3-ketone	2682-20-4	TWA	1.5 mg/m ³
		STEL	4.5 mg/m ³
Poly(ethylene oxide)	25322-68-2	TWA	10 mg/m ³

No substance in the OSHA or ACGIH lists.

Engineering control: Provide local exhaust ventilation at a spray application.

Personal protection:

Respiratory: Wear a NIOSH certified (or equivalent) respirator at spray applications.

Skin Protection: Wear Nitrile or Butyle rubber gloves and clean body-covering clothing.

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

Acute toxicity: Not toxic. Acute oral toxicity (LD50): >20000 mg/kg;
Acute dermal toxicity (LD50): >5000 mg/kg (rabbit).
Inhalation (dust & mist): >100 mg/m³

Skin contact: Non-corrosive, may irritant.

Serious eye damage/irritation: Not known to be corrosive to the eyes. May cause eye irritation.

Respiratory or skin sensitization: May cause irritant in case of inhalation. May cause sensitization of susceptible persons by skin contact

Germ cell mutagenicity: Not known to cause mutation.

Carcinogenicity: Known: No. Anticipated: No. IARC Category: None.

Reproductive toxicity: This product is not a reproductive hazard.

STOT-single exposure: Not available.

STOT-repeated exposure: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Aspiration hazard: Not available.

The product has not been tested. The statements on toxicology have been derived from products of ingredients.

12. ECOLOGICAL INFORMATION

Acute and prolonged toxicity to fish: golden orfe, LC50, 96 hrs, >100 mg/L

Readily biodegradable.

Biodegradation (aquatic metabolism):

5-Chloro-2-methyl-4-isothiazolin-3-ketone: t ½ aerobic = 17.3 hr

2-Methyl-4-isothiazolin-3-ketone: t ½ aerobic = 9.1 hr

The product has not been tested. The statements on toxicology have been derived from products of ingredients.

13. DISPOSAL CONSIDERATIONS

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

Biodegradable in a biological wastewater treatment plant.

Do not release untreated product into natural waters

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. Not in the ADR list.

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

Shipping information: Do not freeze.

15: REGULATORY INFORMATION

(Canada) **WHMIS:** Not controlled under WHMIS.

(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.) **ECHA** No hazardous substances by Directive EC 1272/2008 or 1907/2006 (**REACH**). No substances or preparations in the list of SVHC.

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

China **IECSC**: All of the ingredients of this product are listed on the IECSC.

Korea **Existing Chemicals List (KECL/ECL)**: This product and/or all of its components are on the KECL.

Japan **Existing and New Chemical Substances (ENCS)**: This product and/or all of its components are listed on the ENCS.

Australia **Inventory of Chemical Substances (AICS)**: This product and/or all of its components are listed on the AICS.

Philippine **Inventory of Chemicals and Chemical Substances (PICCS)**: This product and/or all of its components are listed on the PICCS.

New Zealand **Inventory of Chemicals (NZIoC)**: This product and/or all of its components are listed on the NZIoC.

Hazardous Material Information System (U.S.A.): National Fire Protection

Health: 0

Flammability: 0,

Reactivity: 0,

Personal protection: B.

Association (U.S.A.):



Overview: May cause eye, skin and respiratory tract irritation. Ingestion may cause gastric disturbances. Avoid contact with skin and eyes. Avoid inhalation of mists / vapors. Use with local exhaust ventilation. Wear NIOSH certified (or equivalent) organic vapor / particulate respirator in sprayed area. Eye wash fountain and safety shower must be easily accessible.

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

Teratogenicity: No. **Mutagenicity:** No. **Carcinogenicity:** Not known.

Ozone depletion: No

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance / product.

16: OTHER INFORMATION

Phrases for handling and storage:

S23, Do not empty into drains

S40, In winter prevent the water in the container from freezing

S57, Avoid breathing dust and spray mist

S67, In case of contact with skin and eyes, rinse with plenty of water

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