

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND MANUFACTURER

Chemical family: Not applicable
Material description: Non-hazardous blend
SARA 313 Hazard: None noted. All ingredients are TSCA listed.
Product name: **TOUGH GARD GEL**
Product Code: **TG-102-1G**
Producer: 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 contains the substances

Chemical name	CAS number	Content in %	ES number (EINECS)	Safety emergency symbol	R-phrases	S-phrases
Water (H ₂ O)	007032-18-5	>85	-	-	-	-
Modified Fatty alkanolamide	61789-19-3, 13961-86-9	<15	-	-	-	-
Tetra ethylene diamine tetracetate	64-02-8	trace	-	-	-	-

3. HAZARD IDENTIFICATION

The most important health hazards none known
The most important environmental hazards none known
Possible misuse of the substances/compositions none known
Further information -

4. FIRST AID MEASURES

After ingestion Not applicable
After inhalation Not applicable
After contact with eyes Flush eyes with water for at least 15 minutes.
After contact with skin Flush with large quantities of water.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media dry chemical CO₂ (carbon dioxide), foam, water
Unsuitable extinguishing media none known
Specific hazards in fire n. a.
Required special protective equipment for fire-fighters n. a.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions n. a.
Environmental precautions n. a.
Recommended propositions for cleaning and disposal Absorb with an inert ingredient such as sand, earth or vermiculite and dispose of in accordance with federal, state or local regulations.

7. HANDLING AND STORAGE

Handling instructions	n. a.
Storage instructions	Keep containers closed when not in use. Don't store in unclosed unlabelled containers. Do not remove or deface label.
Packaging material	plastic containers

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering precautions	No special requirements
Hygiene precautions and measures	Safety shower and eyewash station should be available.
Occupational exposure limits	n. a.
Personal protective equipment	
Respiratory protection	No special requirements
Eye protection	Wear safety glasses or splash goggles.
Hand and skin protection	Protective gloves, apron

9. PHYSICAL AND CHEMICAL PROPERTIES

State-Appearance (at 20°C)	gel
Color	amber-clear
Odor	no appreciable odor
pH (at °C)	n. a.
Melting temperature (range of temperatures) (°C)	n. a.
Boiling temperature (range of temperatures) (°C)	100°C (212 °F)
Flash point	n. a.
Flammable limits in air	n. a.
Self-ignition	n. a.
Explosion limits	
Upper limit (% vol.)	n. a.
Lower limit (% vol.)	n. a.
Specific gravity	1.0 at 25/25°C
Vapor pressure (at°C) (air =1)	17.5 mm Hg at 20°C (water)
Vapor density (air =1)	17.3 GM-3 (water)
Solubility (at °C)	
in water	100% in water at 25°C
in fat (including fat specification)	n. a.
Evaporation rate (ether=1)	1 mg/l (water)

10. STABILITY AND REACTIVITY

Conditions of stability	stable under common conditions
Conditions to be avoided	none known
Incompatibility (materials to avoid)	Alkalis, oxidizers, acids
Hazardous products of decomposition	none

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. ECOTOXICOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. DISPOSAL CONSIDERATIONS

Methods of disposal

Consult with federal, state or local authorities for approved procedures.

Methods of contaminated packaging disposal

Consult with federal, state or local authorities for approved procedures.

Further information

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14. TRANSPORT INFORMATION

No specific requirements

15. REGULATORY INFORMATION

None mentioned

16. FURTHER INFORMATION

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