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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name PROTEIN STAIN REMOVER
Product use Spot / Stain Remover
Product code 1563
Date of issue 09/16/14 **Supersedes** 05/28/12

Emergency Telephone Numbers

For MSDS Information:

Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By

Technical Services Group
11627 178th Street
Edmonton, Alberta T5S 1N6

Section 2. Hazards Identification

Emergency overview

WARNING !

HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing.
Contains material that can cause target organ damage. Wash thoroughly after handling.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact.

Eyes

May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

Toxic in contact with skin. May cause mild irritation with direct contact. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation

No known significant effects or critical hazards.

Ingestion

Toxic if swallowed. Can cause gastrointestinal disturbances.

Chronic effects

Contains material which causes damage to the following organs: blood, kidneys, liver.

Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, ears.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
PROPYLENE GLYCOL; 1,2-dihydroxypropane,1,2-propanediol	57-55-6	10 - 30
potassium dodecylbenzenesulphonate	27177-77-1	5 - 10
Triethanolamine, TEA	102-71-6	5 - 10
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5
VIALE BACTERIAL CULTURES	Proprietary	1 - 5
Alcohols (C12-15, Ln. saturated) ethoxylate	68131-39-5	1 - 5

Section 4. First Aid Measures

Eye Contact

Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Skin Contact

Get medical attention immediately. Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Ingestion If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention.

Section 5. Fire Fighting Measures

Flash Point Not available.

Flammable Limits Not available.

Flammability Non-combustible.

Auto-ignition Temperature

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire. Wear special protective clothing and positive pressure, self-contained breathing apparatus.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

Products of Combustion Decomposition products may include the following materials:
carbon oxides and sulfur oxides (SO₂, SO₃ etc.)

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Apply this product only as specified on the label. Wash thoroughly after handling.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

propane-1,2-diol

propan-2-ol

Exposure limits

CA Ontario Provincial (Canada, 7/2010).

TWA: 10 mg/m³ 8 hour(s). Form: Aerosol only.

TWA: 155 mg/m³ 8 hour(s). Form: Vapour and aerosol.

TWA: 50 ppm 8 hour(s). Form: Vapour and aerosol.

CA Alberta Provincial (Canada, 4/2009).

15 min OEL: 984 mg/m³ 15 minute(s).

8 hrs OEL: 200 ppm 8 hour(s).

15 min OEL: 400 ppm 15 minute(s).

8 hrs OEL: 492 mg/m³ 8 hour(s).

CA British Columbia Provincial (Canada, 9/2010).

TWA: 200 ppm 8 hour(s).

STEL: 400 ppm 15 minute(s).

CA Ontario Provincial (Canada, 7/2010).

TWA: 200 ppm 8 hour(s).

STEL: 400 ppm 15 minute(s).

CA Quebec Provincial (Canada, 6/2008).

TWAEV: 400 ppm 8 hour(s).

TWAEV: 983 mg/m³ 8 hour(s).

STEV: 500 ppm 15 minute(s).

STEV: 1230 mg/m³ 15 minute(s).

Personal Protective Equipment (PPE)

Eyes Recommended: Safety glasses.



Hands and Body Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Recommended: Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Section 9. Physical and Chemical Properties

Physical State	Liquid. [Clear.]	Color	Colorless to light yellow.
pH	8.5-9.0	Odor	Mild.
Boiling Point	100°C (212°F)	Vapor Pressure	Not determined.
Specific Gravity	1.05	Vapor Density	Not determined.
Solubility	Soluble in the following materials: cold water and hot water.	Evaporation Rate	1 (Water = 1)
Freezing Point		VOC (Consumer)	42 (g/l). 0.35 lbs/gal 4.00%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Not available.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
propane-1,2-diol	LD50 Dermal	Rabbit	208 mg/kg	-
	LD50 Oral	Dog	260 mg/kg	-
	LD50 Oral	Mouse	240 mg/kg	-
	LD50 Oral	Rat	200 mg/kg	-
propan-2-ol	LC50 Inhalation Vapor	Rat	16000 ppm	4 hours
	LD50 Dermal	Rabbit	5030 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Alcohols, C12-15, ethoxylated	LD50 Oral	Rat	2 g/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

propane-1,2-diol	-	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 1020000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <=24 hours	48 hours
	-	Acute LC50 710000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
propan-2-ol	-	Acute LC50 1400000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	-	Acute LC50 >1400000 ug/L	Fish - Western mosquitofish - Gambusia affinis - 20 to 30 mm	96 hours
Alcohols, C12-15, ethoxylated	-	Acute EC50 0.7 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute EC50 0.39 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute EC50 302 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 1030 ug/L Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - 1.1 g	96 hours
	-	Chronic NOEC 83 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	21 days

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not available.	Not available.	Not available.	-		-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information

Canada

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.
Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*