

Citrosqueeze® Turnout Gear Cleaner

1. IDENTIFICATION

Product Identifier: Citrosqueeze Turnout Gear Cleaner
Product Description: Water based cleaner and solvent
Manufacturer: Toro Sales Inc.
293, 6th St.
New Westminster, British Columbia, Canada V3L 3A5
24 hr. Emergency Contact: CANUTEC 613-996-6666
Phone: 604-521-6677 (general calls)

2. HAZARDOUS INGREDIENTS

	%(W/W)	CAS Number	ACGIH, TLV-TWA, TLA-STEL	OSHA PEL_TWS
d-Limonene	-	5989-27-5	Not established	Not established
2-butoxyethanol	-	111-76-2	25 ppm (skin), N.E.	50 ppm

3. PHYSICAL DATA

Physical State: Liquid
Odour/Appearance: Thin opaque liquid with strong citrus odour
Odour Threshold (ppm): Not established
Vapour Pressure (mm Hg): Not established
Vapour Density (Air=1): >1
Evaporation Rate : <1
Boiling Point: 196 °F
Freezing Point: 32 °F
pH: 8.5
Specific Gravity: 0.98
Solubility: Completely soluble in water

4. FIRE/EXPLOSION DATA

Flammability: Yes
Under Which Conditions: Vapour may flash. Avoid all ignition sources.
Means of Extinction: Use dry chemical, carbon dioxide or alcohol foam
Special Procedures: Use water spray to cool containers below the flash point or to disperse vapour. Fire crews should wear self-contained breathing apparatus.
Flash Point/Method: None to boiling point
Upper Flammable Limit: Not established
Lower Flammable Limit: Not established
Autoignition Temp: 711F°
Hazardous Combustion Products: Oxides of carbon
Sensitivity to Impact: No
Sensitivity to Static Discharge: No

5. REACTIVITY DATA

Chemical Stability: Normally stable. May oxidize under prolonged exposure to air. Hazardous polymerization does not occur.
Incompatibility with Other Substances: Avoid strong oxidizing agents due to increased risk of fire or explosion.
Reactivity Under What Conditions: Not reactive under normal conditions.

Hazardous Decomposition None reported.

Products:

6. TOXICOLOGICAL PROPERTIES

Route of Entry:	Inhalation: major; Eye: major; Skin: major; Ingestion: minor
Effects of Acute Exposure:	Irritation can result from liquid, mist or vapour contact with respiratory tract, eyes and skin. Absorption through skin or inhalation of vapour at normal temperatures poses minimal hazard. Slightly toxic by ingestion, but ingestion of large amounts will cause diarrhea. Aspiration can damage lungs and cause death.
Effects of Chronic Exposure:	Prolonged or repeated exposure can defat skin and lead to dermatitis. Can also cause allergic skin response in some persons. Intense long-term exposure may cause kidney problems
Exposure Limits:	ACGHI-TLV-TWA is 25 ppm for 2-butoxyethanol. "Skin" notation
Irritancy of Product:	As above
Sensitization to Product:	d-Limonene is a sensitizer
Carcinogenicity:	Not reported by OSHA, IARC, NTP, ACGIH
Teratogenicity:	Not reported
Reproductive Toxicity:	Not reported
Mutagenicity:	Not reported
Synergistic Products:	Not reported

7. PREVENTIVE MEASURES

Gloves:	Neoprene, Nitrile, Butyl rubber or Polyvinyl alcohol are recommended.
Respirator:	No respiratory protection is required under normal conditions of use. Consider the use of respiratory protection in confined spaces or at elevated temperatures.
Eye:	Chemical safety goggles recommended. A face shield may be warranted in some applications.
Footwear:	Impervious boots using same materials as for gloves.
Clothing:	Coveralls or other suitable protective clothing.
Other:	Emergency eye-wash and shower should be available.
Engineering Controls:	Mechanical ventilation, both dilution and local exhaust may be utilized to keep exposure below the exposure limit. Extra ventilation should be provided in enclosed spaces and in hot weather.
Leak & Spill Procedure:	Soak up small spills with absorbent materials. Prevent run-off from reaching sewers, storm drains or natural water bodies. No reportable quantity according to 40 CFR 302.
Waste Disposal:	Dispose of according to federal, provincial and local laws.
Handling Procedures:	Avoid generating mists. Keep containers closed when not in use. Do not freeze. Ground containers to avoid static accumulation.
Storage Requirements:	Empty containers may contain a hazardous residue. Store in cool, well ventilated area away from incompatible materials and ignition sources.
Special Shipping Info:	COMBUSTIBLE LIQUID, not regulated as packaged (49CFR 172.101), Exemption 173.150(f)(2) UN Number: n/a

8. FIRST AID MEASURES

Specific Measures:	
Inhalation:	Remove victim to fresh air. If breathing has stopped, a trained person should perform artificial respiration. Seek medical care.
Ingestion:	Do not induce vomiting. If conscious, give victim 2 glasses of cold water. Never give anything by mouth to an unconscious person. Seek medical attention.
Eye Contact:	Flush eye for 15 minutes, by the clock, with water while retracting eyelids. Seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash affected area with soap and water. Launder clothing before reuse. Seek medical attention if irritation persists.

9. PREPARATION & DATE

Prepared by: Kel-Ex Agencies Ltd. with information supplied by Toro Sales Inc.
Phone Number: 604-986-4617
Date: June 1, 2007



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