



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Dr. Tranny® Kooler Kleen
Product Number: 19001
Product Use: Trans Line Flush.
Auto Wire Harness Degreaser.
Auto Dielectric Protectant.
Manufacturer/Supplier: International Lubricants, Inc.
P.O. Box 24743, Seattle WA 98124-0743, USA
Phone Number: (206) 762-5343
(800) 333-LUBE (5823)
Emergency Phone: CHEM TEL (800) 255-3924
CHEM TEL (813) 248-0585
Date of Preparation: September 12, 2005

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER

EXTREMELY FLAMMABLE AEROSOL. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. HARMFUL IF SWALLOWED. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. Do not puncture. Do not burn. Store away from heat.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, skin absorption, eye contact, and inhalation.

- Eye:** May irritate eyes.
- Skin:** May irritate skin.
- Ingestion:** May cause stomach distress, nausea or vomiting. May be harmful if swallowed.
- Inhalation:** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

Target Organs: Not available.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. See Section 12 for more information.



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Distillates (petroleum), hydrotreated light	64742-47-8	30 - 60
Butane	106-97-8	10 - 30
Propane	74-98-6	10 - 30
Stoddard solvent	8052-41-3	10 - 30
Isopropanol	67-63-0	3 - 7
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	127087-87-0	3 - 7

Section 4: FIRST AID MEASURES

- Eye Contact:** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
- Skin Contact:** After contact with skin, wash immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, get medical attention.
- Inhalation:** If breathed in, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
- Ingestion:** If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If swallowed, rinse mouth with water (only if the person is conscious).
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may be delayed.

Section 5: FIRE FIGHTING MEASURES

Flammability: EXTREMELY FLAMMABLE. Flammable aerosol by WHMIS criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon. Aldehydes. Formaldehyde.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Pressurized container may explode when exposed to heat or flame. In case of fire and/or explosion do not breathe fumes. Firefighters should wear full protective clothing including self contained breathing apparatus.



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate area. Remove sources of ignition. Keep unnecessary personnel away. Ruptured cylinders may rocket.

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material.

Methods for Clean-Up: Sweep up or gather material and place in appropriate container for disposal. Allow gas to dissipate into the atmosphere.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

Handling:

Keep away from heat, open flames or other sources of ignition. Avoid contact with eyes. Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in a well-ventilated area. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

Storage:

Keep out of the reach of children. Do not store at temperatures above 49 °C. Store in a cool, dry, well-ventilated area. Keep away from food, drink and animal feedingstuffs.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Distillates (petroleum), hydrotreated light	100 ppm	Not available.
Butane	800 ppm	1000 ppm
Propane	1000 ppm	1000 ppm
Stoddard solvent	100 ppm	100 ppm
Isopropanol	400 ppm TWA;	200 ppm TWA;
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)- .omega.-hydroxy-,branched	980 mg/m ³ TWA	400 ppm STEL
	Not available.	Not available.

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations:

Handle in accordance with good industrial hygiene and safety practice.



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Colorless.
Odour:	Petroleum odor.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH (of concentrate):	Not applicable.
Freezing Point (of concentrate):	Not available.
Boiling Point (of concentrate):	Not available.
Flash Point (of concentrate):	Not available.
Evaporation Rate (of concentrate):	Not available.
Lower Flammability Limit:	1.1
Upper Flammability Limit:	12
Vapor Pressure (of concentrate):	Not available.
Vapor Density (of concentrate):	Not available.
Specific Gravity (of concentrate):	0.75 - 0.85
Solubility in Water (of concentrate):	Negligible.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

Conditions of Reactivity: No dangerous reaction known under conditions of normal use.

Incompatible Materials: Oxidizers.

Hazardous Decomposition Products: Oxides of carbon. Aldehydes. Formaldehyde.

Possibility of Hazardous Reactions: Will not occur.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD ₅₀ (oral)	LC ₅₀
Distillates (petroleum), hydrotreated light	>5000 mg/kg, rat	Not available.
Butane	Not available.	Not available.
Propane	Not available.	Not available.
Stoddard solvent	>5000 mg/kg, rat	Not available.
Isopropanol	5045 mg/kg, rat	16970 ppm 4 hrs, rat
Poly(oxy-1,2-ethanediy), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	2600 mg/kg, rat	Not available.



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

- Eye:** May irritate eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Skin:** May irritate skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- Ingestion:** Not a normal route of exposure. May cause stomach distress, nausea or vomiting. May be harmful if swallowed.
- Inhalation:** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Aspiration of material into lungs can cause chemical pneumonitis.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Distillates (petroleum), hydrotreated light	Not listed.
Butane	Not listed.
Propane	Not listed.
Stoddard solvent	Not listed.
Isopropanol	Not listed.
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	Not listed.

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.



MATERIAL SAFETY DATA SHEET
Dr. Tranny® Kooler Kleen

Section 14: TRANSPORTATION INFORMATION

DOT Classification:
ORM-D

TDG Classification:
Limited Quantity

Section 15: REGULATORY INFORMATION

Federal Regulations

Canadian: 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.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Distillates (petroleum), hydrotreated light	-	-	-	No.
Butane	-	-	-	No.
Propane	-	-	-	No.
Stoddard solvent	-	-	-	No.
Isopropanol	-	-	-	Yes.
Poly(oxy-1,2-ethanediyl), .alpha.- (4-nonylphenyl)-.omega.- hydroxy-, branched	-	-	-	No.

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
Distillates (petroleum), hydrotreated light	DSL	Yes.
Butane	DSL	Yes.
Propane	DSL	Yes.
Stoddard solvent	DSL	Yes.
Isopropanol	DSL	Yes.
Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy- , branched	DSL	Yes.

NFPA - National Fire Protection Association:

Health - 3 Fire - 4 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification:

- Class A - Compressed Gas
- Class B5 - Flammable Aerosol
- Class D2B - Skin/Eye Irritant



MATERIAL SAFETY DATA SHEET

Dr. Tranny® Kooler Kleen

WHMIS Hazard Symbols:



SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Expiry Date: September 12, 2008

Revision #: 1

Prepared by: Nexreg Compliance Inc.

Phone: (519) 488-5126

Web: www.nexreg.ca