

tech Spray Lube

MATERIAL SAFETY DATA SHEET



Date Issued: 12/11/2006

MSDS No: 2421-12S CARB compliant version

Revision No: New MSDS

G3 Kleen-It Lubricant

PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: G3 Kleen-It Lubricant
GENERAL USE: All Purpose Lubricant
PRODUCT DESCRIPTION: Trans-based Lubricant
PRODUCT CODE: 2421-12S CARB compliant version

MANUFACTURER

Techspray, L.P.
1001 N.W. 1st Street
P.O. Box 949
Amarillo TX 79107
Emergency Contact: Chemtrec
Product Stewardship: 1-800-858-4043
Service Number: 1-800-858-4043

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (US Transportation) : (800) 424 - 9300
CANUTEC (Canadian Transportation) : (613) 996 - 6666
Emergency Phone : (800) 858 - 4043

HAZARDS IDENTIFICATION

HAZARD DESIGNATION

EEC LABEL SYMBOL AND CLASSIFICATION



"Xn" - Harmful
R20 - Harmful by inhalation.



"Xi" - Irritant
R36/38 - Irritating to eyes and skin.

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Warning! High concentrations of vapor can reduce oxygen available for breathing. Harmful if inhaled. May decompose on contact with flames or extremely hot metal surfaces to produce toxic and corrosive products.

POTENTIAL HEALTH EFFECTS

EYES: Irritating, and may injure eye tissue if not removed promptly.

SKIN: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Liquid contact could cause frostbite.

INGESTION: Harmful if swallowed.

INHALATION: Harmful if inhaled. Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Symptoms of overexposure include: stinging, tearing, redness and pain.

SKIN: Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ("cold" burn).

INGESTION: Swallowing of this material may result in nausea, vomiting and weakness followed by central nervous system depression.

INHALATION: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis and loss of consciousness).

ACUTE TOXICITY: Overexposure may cause dizziness and loss of concentration. At higher levels, CNS

depression and cardiac arrhythmia may result.

CHRONIC EFFECTS: Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

CARCINOGENICITY: NOT listed

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: Not Established

TERATOGENIC EFFECTS: Not considered a developmental toxicant.

ROUTES OF ENTRY: Inhalation is major route of entry.

CANCER STATEMENT: NOT listed

COMPOSITION INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Siloxanes and Silicones, di-Me	< 1	63148-62-9	xxx-xxx-x
1,2-transdichloroethylene (Trans)	40 - 50	156-60-5	205-860-2
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	10 - 20	460-73-1	4191706
WHITE MINERAL OIL	1 - 3	8042-47-5	
1,1,1,2-Tetrafluoroethane (HFC-134a)	30 - 40	811-97-2	212-337-0

FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: If swallowed, do not induce vomiting. If conscious and alert, give two glasses of water. Seek medical attention.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EXTINGUISHING MEASURES

FLASHPOINT AND METHOD: None : ASTM D-56 (Tag C.C.)

GENERAL HAZARD: Aerosol cans may erupt with force at temperatures above 120F.

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon.

FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposition products are hazardous. This compound can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrochloric and hydrofluoric acids - possibly carbonyl halides.

SMALL SPILL AND LEAKS

SMALL SPILL: Absorb liquid and place in sealed container for disposal. Vapors can travel to an ignition source.

GENERAL PROCEDURES: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

HANDLING AND STORAGE

GENERAL PROCEDURES: Wash thoroughly after handling. Use only in a well ventilated area. Follow all MSDS/label precautions even after container is emptied because they may retain product residues. Store in a cool dry place.

HANDLING: Use with sufficient ventilation to keep employee exposure below recommended limits. Provide adequate ventilation for storage, handling and use, especially for enclosed or low spaces. Avoid contact of liquid with eyes and prolonged skin exposure. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

STORAGE: Store in a cool place in original container and protect from sunlight. Keep away from heat and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
EXPOSURE LIMITS							
		OSHA PEL		ACGIH TLV		Supplier OEL	
Chemical Name		ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1,2-transdichloroethylene (Trans)	TWA	NE [1]	[1]	200 ppm		NE	
	STEL	NE		200 ppm			
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	TWA	NONE		NONE		300 ppm	
	STEL	NONE		NONE			
WHITE MINERAL OIL	TWA	5 mg/m ³		5 mg/m ³			
	STEL	5 mg/m ³		5 mg/m ³			
1,1,1,2-Tetrafluoroethane (HFC-134a)	TWA	NE		NE		1,000 ppm [2]	[2]

OSHA TABLE COMMENTS:

1. NOT ESTABLISHED
2. * (AEL)=Acceptable Exposure Limit as established by the manufacture

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

SKIN: Skin contact with liquid may cause frostbite. General work clothing and gloves (leather) should provide adequate protection. If prolonged contact with the liquid or gas is anticipated, insulated gloves constructed of PVA, neoprene or butyl rubber should be used. Any contaminated clothing should be promptly removed and washed before reuse.

RESPIRATORY: NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are

not known, or any other circumstances where air purifying respirators may not provide adequate protection.

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Flash Point	Boiling Point (°C)	Freezing Point (°C)	Auto Ignition (°C)	Solubility in Water	Specific Gravity	Specific Volume
1,2-transdichloroethylene (Trans)	36	48	-50		slight	1.257	
1,1,1,3,3-Pentafluoropropane (HFC-245fa)		15	-160		7.18 g/l @ ambient temperature	1.32	
WHITE MINERAL OIL	120	230			NEGLIGIBLE	1	
1,1,1,2-Tetrafluoroethane (HFC-134a)		-26.4	-101		NEGLIGIBLE	1.21	

PHYSICAL STATE: Liquid

ODOR: Faint ethereal odor

APPEARANCE: Clear, mobile liquid.

COLOR: Colorless

pH: Not Applicable

PERCENT VOLATILE: 98

VAPOR PRESSURE: Not Established

VAPOR DENSITY: > 1 (Air=1)

BOILING POINT: Not Available

FREEZING POINT: Not Available

MELTING POINT: Not Applicable

SOLUBILITY IN WATER: Insoluble

DENSITY: 1.24 at 19.4°C

VISCOSITY: Not Applicable

(VOC): 60.000 % by weight

HAZARD AND REACTIVITY

HAZARDOUS POLYMERIZATION: No

STABILITY: Stable under normal conditions.

POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Heat, flames, ignition sources, and incompatibles.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrochloric acid, hydrofluoric acid, chlorine, fluorine, phosgene, carbon dioxide, carbon monoxide.

INCOMPATIBLE MATERIALS: Strong acids and alkalis, reactive metals and strong oxidizing agents.

TOXICOLOGICAL INFORMATION

ACUTE

Chemical Name	ORAL LD ₅₀ (rat)	DERMAL LD ₅₀ (rabbit)	INHALATION LC ₅₀ (rat)
1,2-transdichloroethylene (Trans)		> 5000 mg/kg	24100 ppm
1,1,1,3,3-Pentafluoropropane (HFC-245fa)		> 2000 mg/kg	> 200000 ppm
1,1,1,2-Tetrafluoroethane (HFC-134a)			> 500000 ppm

EYES:

Notes: Moderately to severely irritating

DERMAL LD₅₀:

Notes: Slight to very low toxicity.

ORAL LD₅₀: > 2000 mg/kg (rat)

NOTES: Fumes/liquid -- Irritant

EYE EFFECTS: Mixture is a moderate eye irritant.

SKIN EFFECTS: Causes irritation to skin.

CARCINOGENICITY

Chemical Name	NTP Status	IARC Status	OSHA Status	Other	General Toxicity
1,2-transdichloroethylene (Trans)	NOT LISTED	NOT LISTED	NOT LISTED		
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	NOT LISTED	NOT LISTED	NOT LISTED		
1,1,1,2-Tetrafluoroethane (HFC-134a)	NOT LISTED	NOT LISTED	NOT LISTED		

IARC: NOT listed

NTP: NOT listed

Notes: Not listed as a carcinogen.

NEUROTOXICITY: Exposure to high concentrations may effect the nervous system.

MUTAGENICITY: Collective data indicate non-mutagenic.

TOXICOLOGICAL INFORMATION

ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

DISPOSAL/RECYCLING/REUSE

DISPOSAL METHOD: Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

GENERAL COMMENTS: Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

UN/NA NUMBER: NA

PACKING GROUP: NA

ROAD AND RAIL (ADR/RID):

KEMLER NUMBER: UN1950

HAZARD CLASS: 2.2

AIR (ICAO/IATA)

SHIPPING NAME: CONSUMER COMMODITY ID8000

UN/NA NUMBER: ID8000

PRIMARY HAZARD CLASS/DIVISION: 9

PACKING GROUP: NA

NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)

SHIPPING NAME: AEROSOLS IN LIMITED QUANTITIES OF CLASS 2

UN/NA NUMBER: UN1950

PRIMARY HAZARD CLASS/DIVISION: 2.2

PACKING GROUP: NA

NOTE: Page 2102

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: IMMEDIATE / PRESSURE

PRESSURE GENERATING: Yes **ACUTE:** Yes

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Listed in Table 302.4 of 40 CFR Part 302 as a hazardous substance with a reportable quantity of 1000 lbs.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: 1,2-trans-dichloroethylene

Chemical Name	Wt.%	CERCLA RQ
1,2-transdichloroethylene (Trans)	40 - 50	1000 lbs.

CERCLA RQ: 1000 Lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

Chemical Name	CAS	TSCA SECTION
Siloxanes and Silicones, di-Me	63148-62-9	8a, 8d,
1,2-transdichloroethylene (Trans)	156-60-5	
1,1,1,3,3-Pentafluoropropane (HFC-245fa)	460-73-1	
1,1,1,2-Tetrafluoroethane (HFC-134a)	811-97-2	

TSCA STATUS: All components of this product are either listed or exempt from listing in the TSCA inventory.

CLEAN AIR ACT

Chemical Name	Wt.%	CAS
1,1,1,2-Tetrafluoroethane (HFC-134a)	30 - 40	811-97-2

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals known to the State of California to cause cancer.

OSHA HAZARD COMM. RULE: Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASS: Class A, Class D2B.

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION



"Xn" - Harmful
R20 - Harmful by inhalation.



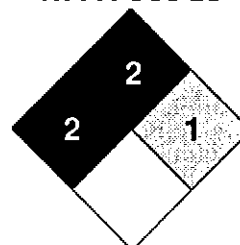
"Xi" - Irritant
R36/38 - Irritating to eyes and skin.

6. OTHER INFORMATION

APPROVED BY: Pierce A. Pillon **TITLE:** Chemist

REVISION SUMMARY: New MSDS

NFPA CODES



DATA SOURCES: Code of Federal Regulations (CFR) The Sigma-Aldrich Library of Regulatory and Safety Data OSHA Hazard Communication Standard (29CFR1910.1200) Various Federal, State and Local Regulations

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