

SAFETY DATA SHEET

1. Identification

Product number	100009134	
Product identifier	78014 TERAND OPEN GEAR LUBRICANT	
Company information	CPC 1000 INTEGRAM DRIVE PACIFIC, MO 63069 United States	
Company phone	General Assistance 800-327-1835	
Emergency telephone US	1-866-836-8855	
Emergency telephone outside US	1-952-852-4646	
Version #	01	
Recommended use	Lubricant	
Recommended restrictions	None known.	
2. Hazard(s) identification		
Physical bazards	Flammable aerosols	Cate

Physical hazards	Flammable a

Flammable aerosols	Category 1
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1
Not classified.	
	Skin corrosion/irritation Serious eye damage/eye irritation Germ cell mutagenicity Carcinogenicity

Label elements



Signal word	Danger
Hazard statement	Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	40 - 60

Chemical name	Common name and synonyms	CAS number	%
Propane		74-98-6	10 - 20
Trichloroethylene		79-01-6	10 - 20
Other components below reportable levels			20 - 40

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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4. First-aid measures	
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.
6. Accidental release meas	sures
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to
remove residual contamination. For waste disposal, see section 13 of the SDS.Environmental precautionsAvoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid contact with eyes, skin, and clothing. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 2 Aerosol.
	Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Cylinders should be stored upright, with valve

protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a

well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components		Туре	•	Va	alue	
Propane (CAS 74-98-6)		PEL		18	300 mg/m3	
				1(000 ppm	
US. OSHA Table Z-2 (29	CFR 1910.1000					
Components		Туре		Va	alue	
Trichloroethylene (CAS 79-01-6)		Ceilin	g	20	00 ppm	
		TWA		1(00 ppm	
US. ACGIH Threshold Li	mit Values					
Components		Туре		Va	alue	
Butane (CAS 106-97-8)		STEL		1(000 ppm	
Trichloroethylene (CAS 79-01-6)		STEL		25	5 ppm	
,		TWA		1() ppm	
US. NIOSH: Pocket Guid	e to Chemical H	lazards				
Components		Туре		Va	alue	
Butane (CAS 106-97-8)		TWA		19	000 mg/m3	
				80	00 ppm	
Propane (CAS 74-98-6)		TWA			300 mg/m3	
)00 ppm	
Trichloroethylene (CAS 79-01-6)		TWA		25	5 ppm	
logical limit values						
ACGIH Biological Expos	ure Indices					
Components	Value		Determinant	Specimen	Sampling Time	
Trichloroethylene (CAS 79-01-6)	15 mg/l		Trichloroacetic acid	Urine	*	
	0.5 mg/l		Trichloroethano I, without hydrolysis	Blood	*	

* - For sampling details, please see the source document.

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

	-
Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	194 °F (90 °C) estimated
Flash point	-156.0 °F (-104.4 °C) PROPELLANT estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	8 % estimated
Flammability limit - upper (%)	52 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	788 °F (420 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.63 g/cm3 estimated
Explosive properties	Not explosive.

Oxidizing properties	Not oxidizing.
Specific gravity	0.636

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Dizziness. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Butane (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
Trichloroethylene (CAS 79-01-6))	
Acute		
Dermal		
LD50	Rat	19031 mg/kg
Inhalation		
LC50	Dog; Mouse; Rabbit; Rat	8450 ppm, 4 Hours
	Rat	12500 ppm, 4 Hours
		1044 mg/l/4h
Oral		
LD50	Dog; Mouse; Rat	2900 mg/kg

* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation	Causes seri	Causes serious eye irritation.			
Respiratory or skin sensitizatio	on				
Respiratory sensitization	Not a respir	Not a respiratory sensitizer.			
Skin sensitization	This produc	t is not expected to cause skin sensitiza	ation.		
Germ cell mutagenicity	Suspected of	of causing genetic defects.			
Carcinogenicity	May cause	cancer.			
IARC Monographs. Overall	Evaluation of	Carcinogenicity			
Trichloroethylene (CAS 79-01-6) If <1L: Consumer Commodity Carcinogenic to humans. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)					
Not regulated. US. National Toxicology Pr	ogram (NTP) l	Report on Carcinogens			
Trichloroethylene (CAS	79-01-6)	Reasonably Anticip	ated to be a Human Carcinogen.		
Reproductive toxicity	This produc	t is not expected to cause reproductive	or developmental effects.		
Specific target organ toxicity - single exposure	Not classifie	Not classified.			
Specific target organ toxicity - repeated exposure	Not classifie	Not classified.			
Aspiration hazard	Not likely, d	Not likely, due to the form of the product.			
Chronic effects	Prolonged in	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.			
12. Ecological informatio	n				
Ecotoxicity		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Components		Species	Test Results		
Trichloroethylene (CAS 79-0	1-6)				
Aquatic					
Crustacea	EC50	Daphnia	2.2 mg/L, 48 Hours		
Fish	LC50	Fish	40.8933, 96 Hours		
		Flagfish (Jordanella floridae)	3.1 mg/l, 96 hours		
* Estimates for product may	be based on a	dditional component data not shown.			
Persistence and degradability		vailable on the degradability of this pro	duct.		
Bioaccumulative potential					
Partition coefficient n-octa	nol / water (lo	g Kow)			

Partition coefficient n-c	octanol / water (log Kow)
Butane	2.89
Propane	2.36
Trichloroethylene	2.61
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone d

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
· ·	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
· ·	Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	





15. Regulatory information

US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.12		ned by the OSHA Hazard Communication
TSCA Section 12(b) Export	Notification (40 CFR 707, S	ubpt. D)	
Not regulated. CERCLA Hazardous Subst	anoo List (40 CEB 202 4)		
Trichloroethylene (CAS	· · /	Listed.	
SARA 304 Emergency relea	,	Listeu.	
Not regulated.			
•	ed Substances (29 CFR 191	0.1001-1050)	
Not regulated.			
Superfund Amendments and R	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely hazar	dous substance		
Not listed.			
SARA 311/312 Hazardous chemical	No		
SARA 313 (TRI reporting)			
Chemical name		CAS number	% by wt.
Trichloroethylene		79-01-6	10 - 20
Other federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air Polluta	ints (HAPs) List	
Trichloroethylene (CAS Clean Air Act (CAA) Sectio	79-01-6) n 112(r) Accidental Release	Prevention (40 CFR	68.130)
Butane (CAS 106-97-8) Propane (CAS 74-98-6)			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. California Controlled S	ubstances. CA Department	of Justice (Californi	a Health and Safety Code Section 11100)
Not listed. US. California. Candidate C (a))	Chemicals List. Safer Consu	mer Products Regul	lations (Cal. Code Regs, tit. 22, 69502.3, subd
Butane (CAS 106-97-8)			
Trichloroethylene (CAS	,		
US. Massachusetts RTK - S	Substance List		
Butane (CAS 106-97-8) Propane (CAS 74-98-6) Trichloroethylene (CAS	79-01-6)		
	d Community Right-to-Know	v Act	
Butane (CAS 106-97-8) Propane (CAS 74-98-6) Trichloroethylene (CAS			

US. Pennsylvania Worker and Community Right-to-Know Law

Butane (CAS 106-97-8) Propane (CAS 74-98-6) Trichloroethylene (CAS 79-01-6)

US. Rhode Island RTK

Butane (CAS 106-97-8) Propane (CAS 74-98-6) Trichloroethylene (CAS 79-01-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance		
Trichloroethylene (CAS 79-01-6)	Listed: April 1, 1988	
US - California Proposition 65 - CRT: Listed dat	e/Developmental toxin	
Trichloroethylene (CAS 79-01-6)	Listed: Jan 31, 2014	
US - California Proposition 65 - CRT: Listed dat	e/Male reproductive toxin	
Trichloroethylene (CAS 79-01-6)	Listed: Jan 31, 2014	

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	02-22-2018
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	Product and Company Identification: Alternate Trade Names