

SAFETY DATA SHEET

1. Identification	
Product number	1000011453
Product identifier	TERAND BRAKE PARTS CLEANER
Revision date	01-14-2017
Company information	CPC 1005 S. Westgate Drive Addison, IL 60101 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 #	03
Supersedes date	06-06-2016
Recommended use	CLEANER
Recommended restrictions	None known.

2. Hazard(s) identification

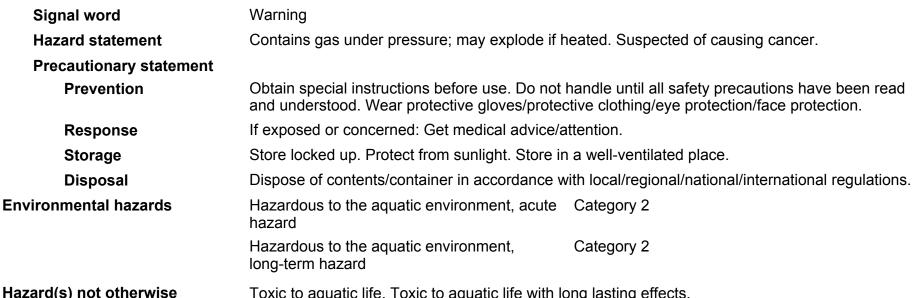
Physical hazards Health hazards **OSHA** defined hazards

Label elements

Gases under pressure Carcinogenicity Not classified.



Compressed gas Category 2



Hazard(s) not otherwise classified (HNOC)

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Perchloroethylene		127-18-4	90 - 100
Carbon Dioxide		124-38-9	2.5 - 10
Carbon Tetrachloride		56-23-5	0.1 - 1

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

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product.
Most important symptoms/effects, acute and delayed	Headache. Dizziness. Nausea.
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. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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	Cool containers exposed to flames with water until well after the fire is out.
General fire hazards	Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. 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. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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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. Ground and bond containers when transferring material. 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 prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage,	Level 1 Aerosol.
including any incompatibilities	Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. 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	Value
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3
		5000 ppm
US. OSHA Table Z-2 (29 CFR 1910.1000)		
Components	Туре	Value
Carbon Tetrachloride (CAS 56-23-5)	Ceiling	25 ppm
	TWA	10 ppm
Perchloroethylene (CAS 127-18-4)	Ceiling	200 ppm
,	TWA	100 ppm
US. ACGIH Threshold Limit Values		
Components	Туре	Value
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
Carbon Tetrachloride (CAS 56-23-5)	STEL	10 ppm
	TWA	5 ppm
Perchloroethylene (CAS 127-18-4)	STEL	100 ppm
	TWA	25 ppm

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Carbon Tetrachloride (CAS 56-23-5)	STEL	12.6 mg/m3	
00 20 0)		2 ppm	
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Biological limit values

ACGIH Biological Expose Components	Value	Determinant	Specimen	Sampling Time	
Perchloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*	
,	3 ppm	Tetrachloroethy lene	End-exhaled air	*	
* - For sampling details, pl	ease see the source	document.			
Exposure guidelines					
US - California OELs: Sk	in designation				
Carbon Tetrachloride US - Minnesota Haz Subs	· /		absorbed throu	gh the skin.	
Carbon Tetrachloride Perchloroethylene (CA US ACGIH Threshold Lin	ÀS 127-18-4)	Skin de	signation applie signation applie		
Carbon Tetrachloride	(CAS 56-23-5)	Can be	absorbed throu	gh the skin.	
Appropriate engineering controls	should be match or other engined	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.			
Individual protection measur	es, such as persona	al protective equipmer	nt		
Eye/face protection	If contact is like	ly, safety glasses with s	ide shields are i	recommended.	
Skin protection					
Hand protection	Wear appropria supplier.	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.			
Other	Wear suitable p	Wear suitable protective 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 appropria	te thermal protective clo	othing, when nee	cessary.	
General hygiene	Observe any m	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. Compressed gas.	
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	241.35 °F (116.31 °C) estimated	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	blosive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
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Vapor pressure	80 psig @70F estimated	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
Other information		
Explosive properties	Not explosive.	
Oxidizing properties	Not oxidizing.	
Specific gravity	1.619 estimated	

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. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics			
Information on toxicological effe	cts		
Acute toxicity			
Components	Species	Test Results	

Perchlor

oroethylene (CAS 12	27-18-4)		
<u>Acute</u>			
Inhalation			
LC50	Dog; Mouse; Rabbit; Rat	3000 ppm	
Oral			
LD50	Cat; Dog; Mouse; Rabbit; Rat	> 1500 mg/kg	
	Rat	3005 mg/kg	

* Estimates for product may b	e based on additional component data not shown.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory or skin sensitization	1		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
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IARC Monographs. Overall E	valuation of Carcinogenicity		
		2B Possibly carcinogenic to humans. 2A Probably carcinogenic to humans.	
,	l Substances (29 CFR 1910.10	, .	
Not regulated. US. National Toxicology Prog	gram (NTP) Report on Carcine	ogens	
Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)		Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not likely, due to the form of the product.		
Chronic effects	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.		

12. Ecological information

cotoxicity	Toxic to a	equatic life with long lasting effects.		
Components	Species		Test Results	
Carbon Tetrachloride	(CAS 56-23-5)			
Aquatic				
Fish	LC50	Fathead minnow (Pimephales promelas)	9.68 - 11.3 mg/l, 96 hours	
Perchloroethylene (C/	AS 127-18-4)			
Aquatic				
Crustacea	EC50	Daphnia	7.55 mg/L, 48 Hours	
		Water flea (Daphnia magna)	6.1 - 9 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours	

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-oc	tanol / water (log Kow)	
Carbon Tetrachloride	2.83	
Perchloroethylene	3.4	
Mobility in soil	No data available.	
Other adverse effects	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. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. 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.

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14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	2L
	Read safety instructions, SDS and emergency procedures before handling.
Other information	riced salety instructions, obo and emergency procedures before handling.
	Allowed with restrictions.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	AEROSOES
Class	2.2
	ζ.ζ
Subsidiary risk	2.2
Label(s)	
Packing group Environmental hazards	Not applicable.
Marine pollutant	Yes
EmS	Not available.
	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



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General information

IMDG Regulated Marine Pollutant. Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

US federal regulations	This product is a "Hazardo Standard, 29 CFR 1910.1	lous Chemical" as defined by the OSHA Hazard Communication 1200.	on
TSCA Section 12(b) Export	Notification (40 CFR 707, S	Subpt. D)	
Not regulated.			
CERCLA Hazardous Substa	nce List (40 CFR 302.4)		
Carbon Tetrachloride (CA	AS 56-23-5)	Listed.	
Perchloroethylene (CAS	127-18-4)	Listed.	
SARA 304 Emergency relea	se notification		
Not regulated.			
OSHA Specifically Regulate	d Substances (29 CFR 191	10.1001-1050)	
Not regulated.			
Superfund Amendments and Re	authorization Act of 1986	(SARA)	
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No		
SARA 302 Extremely hazard	lous substance		
Not listed.			
SARA 311/312 Hazardous	No		

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Perchloroethylene	127-18-4	90 - 100
Carbon Tetrachloride	56-23-5	0.1 - 1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

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Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
- (a))

Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

US. Massachusetts RTK - Substance List

Carbon Dioxide (CAS 124-38-9) Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

US. New Jersey Worker and Community Right-to-Know Act

Carbon Dioxide (CAS 124-38-9) Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

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

Carbon Dioxide (CAS 124-38-9) Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

US. Rhode Island RTK

Carbon Tetrachloride (CAS 56-23-5) Perchloroethylene (CAS 127-18-4)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbon Tetrachloride (CAS 56-23-5)	Listed: October 1, 1987
Perchloroethylene (CAS 127-18-4)	Listed: April 1, 1988

International Inventories

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

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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	Hazard(s) identification: Hazard statement Hazard(s) identification: Response GHS: Classification

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