

Version: 1.0 Revision Date: 01/22/2020

# SAFETY DATA SHEET

# 1. Identification

Product identifier: TERAND SAFETY DEGREASER N-PROPYL BROMIDE-BASED -55518

Other means of identification SDS number: RE1000011455

Recommended restrictions

Product use: Cleaner Restrictions on use: Not known.

## Manufacturer/Importer/Distributor Information

#### Manufacturer

Company Name:	CPC
Address:	1000 INTEGRAM DRIVE
	PACIFIC, MO 63069
Telephone:	1-800-327-1835
Fax:	

Emergency telephone number: 1-866-836-8855

## 2. Hazard(s) identification

#### **Hazard Classification**

#### **Physical Hazards**

Gases under pressure

Compressed gas

#### **Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Carcinogenicity	Category 1B
Toxic to reproduction	Category 1B
Specific Target Organ Toxicity - Single Exposure	Category 3 <sup>1.</sup>
Specific Target Organ Toxicity - Repeated Exposure	Category 2

#### **Target Organs**

1. Respiratory tract irritation., Narcotic effect.

# **Environmental Hazards**

Acute hazards to the aquatic Category 3 environment



# Label Elements

Hazard Symbol:

Signal Word:	Danger
Hazard Statement:	Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.
Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.
Response:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.



# 3. Composition/information on ingredients

## **Mixtures**

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Chemical Identity	CAS number	Content in percent (%)*	
Propane, 1-bromo-	106-94-5	50 - <100%	
Carbon dioxide	124-38-9	1 - <5%	
1-Propanol	71-23-8	1 - <3%	
2-Propanol, 2-methyl-	75-65-0	1 - <5%	
Oxirane, 2-ethyl-	106-88-7	1 - <5%	
* All concentrations are perc	ent by weight unless ing	predient is a gas. Gas concentrations are in percent by volume.	
4. First-aid measures			
Ingestion:	Call a POIS	ON CENTER/doctor if you feel unwell. Rinse mouth.	
Inhalation:	Move to free	sh air.	
Skin Contact:	Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.		
Eye contact:	Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.		
Most important symptoms/effects, acute and delayed			
Symptoms:	No data available.		
Hazards:	Hazards: No data available.		
Indication of immediate medical attention and special treatment needed			
Treatment: No data available.			
5. Fire-fighting measures			
General Fire Hazards: No unusual fire or explosion hazards noted.			
Suitable (and unsuitable) ex	tinguishing media	a	
Suitable extinguishing media:	Use fire-ext	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishin media:	g Do not use	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising fro the chemical:	<b>n</b> During fire, gases hazardous to health may be formed.		
Special protective equipment and precautions for firefighters			
Special fire fighting No data available. procedures:			



Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
6. Accidental release measure	S	
Personal precautions, protective equipment and emergency procedures:	See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.	
Methods and material for containment and cleaning up:	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.	
Notification Procedures: Environmental Precautions:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.	
7. Handling and storage		
Precautions for safe handling:	Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Avoid contact with skin.	
Conditions for safe storage, including any incompatibilities:	Store locked up. Aerosol Level 1	

# 8. Exposure controls/personal protection

# **Control Parameters**

# **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure	Limit Values	Source
Propane, 1-bromo-	TWA	0.1 ppm		US. ACGIH Threshold Limit Values (02 2014)
Carbon dioxide	TWA	5,000 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	30,000 ppm	54,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	5,000 ppm	9,000 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5,000 ppm	9,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	10,000 ppm	18,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	30,000 ppm	54,000 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
1-Propanol	TWA	200 ppm	500 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	200 ppm	500 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	250 ppm	625 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	200 ppm	500 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	250 ppm	625 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
2-Propanol, 2-methyl-	STEL	150 ppm	450 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	100 ppm	300 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm	300 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	100 ppm		US. ACGIH Threshold Limit Values (2008)
	STEL	150 ppm	450 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	100 ppm	300 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)



Appropriate Engineering	No data available.
Controls	

# Individual protection measures, such as personal protective equipment

General information:	Provide easy access to water supply and eye wash facilities. 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/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection Hand Protection:	No data available.
Other:	Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

# 9. Physical and chemical properties

Physical state:liquidForm:Spray AerosolColor:No data available.Odor:No data available.Odor threshold:No data available.pH:No data available.Melting point/freezing point:No data available.Initial boiling point and boiling range:Estimated 71 °CFlash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.Upper/lower limit on flammability or explosiveImitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:4,274 - 5,653 hPa (20 °C)Vapor density:No data available.Density:No data available.	Appearance		
Color:No data available.Odor:No data available.Odor threshold:No data available.pH:No data available.pH:No data available.Melting point/freezing point:No data available.Initial boiling point and boiling range:Estimated 71 °CFlash Point:Not applicableEvaporation rate:No data available.Flammability (solid, gas):No data available.Upper/lower limit on flammability or explosiveIimitsFlammability limit - upper (%):No data available.Flammability limit - lower (%):No data available.Explosive limit - upper (%):No data available.Explosive limit - lower (%):No data available.Vapor pressure:4,274 - 5,653 hPa (20 °C)Vapor density:No data available.	Physical state:	liquid	
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Vapor density: No data available.	Explosive limit - lower (%):	No data available.	
	Vapor pressure:	4,274 - 5,653 hPa (20 °C)	
Density: No data available.	Vapor density:	No data available.	
	Density:	No data available.	



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# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

# 11. Toxicological information

Information on likely routes of ex Inhalation:	<b>kposure</b> No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

# Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

# Information on toxicological effects

# Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 31,266.28 mg/kg
Dermal Product:	ATEmix: 52,110.47 mg/kg



Inhalation Product:	ATEmix: 246.54 mg/l	
Repeated dose toxicity Product:	No data available.	
Specified substance(s): Propane, 1-bromo-	NOAEL (Rat(Female, Male), Inhalation): 5 mg/l Inhalation Experimental result, Supporting study	
1-Propanol	NOAEL (Rat(Female, Male), Inhalation): 8,000 mg/m3 Inhalation	
Oxirane, 2-ethyl-	Experimental result, Key study NOAEL (Mouse(Female, Male), Inhalation, 90 d): 150 ppm(m) Inhalation Experimental result, Weight of Evidence study	
Skin Corrosion/Irritation Product:	No data available.	
<b>Specified substance(s):</b> 1-Propanol	in vivo (Rabbit): Not irritant Experimental result, Key study	
Oxirane, 2-ethyl-	estimated Irritating. in vivo (Rabbit): Not irritant Experimental result, Key study	
Serious Eye Damage/Eye Irritatio Product: Specified substance(s):	<b>on</b> No data available.	
Propane, 1-bromo-	Rabbit, 1 - 7 d: Irritating	
Respiratory or Skin Sensitization Product:	<b>n</b> No data available.	
Specified substance(s): Propane, 1-bromo-	Skin sensitization:, in vivo (Guinea pig): Non sensitising	
Carcinogenicity Product: Specified substance(s):	No data available.	
Oxirane, 2-ethyl-	Possible cancer hazard - may cause cancer based on animal data.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Propane, 1-bromo- Overall evaluation: 2B. Possibly carcinogenic to humans.		
Oxirane, 2-ethyl-	Overall evaluation: 2B. Possibly carcinogenic to humans.	
US. National Toxicology Program (NTP) Report on Carcinogens: Propane, 1-bromo- Reasonably Anticipated to be a Human Carcinogen.		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	



Reproductive toxicity Product:	No data available.
Specified substance(s): Propane, 1-bromo-	May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility based on animal data.
Specific Target Organ Toxicity -	- Single Exposure
Product:	No data available.
Specified substance(s):	
Propane, 1-bromo-	Narcotic effect., Respiratory tract irritation Category 3 with narcotic effects. Category 3 with respiratory tract irritation.
2-Propanol, 2-methyl-	Inhalation - dust and mist: Respiratory tract irritation Category 3 with respiratory tract irritation.
Oxirane, 2-ethyl-	Narcotic effect Category 3 with narcotic effects.
Specific Target Organ Toxicity -	- Repeated Exposure
Product:	No data available.
Specified substance(s):	
Propane, 1-bromo-	Liver, Nervous System - Category 2
Target Organs	
0 0	city - Single Exposure: Respiratory tract irritation., Narcotic effect.
Aspiration Hazard	
Product:	No data available.
	No data available.

# Ecotoxicity:

# Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): Propane, 1-bromo-	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 67.3 mg/l Mortality
1-Propanol	LC 50 (Pimephales promelas, 96 h): 4,555 mg/l Experimental result, Key study
2-Propanol, 2-methyl-	LC 50 (Pimephales promelas, 96 h): > 961 mg/l Experimental result, Key study NOAEL (Pimephales promelas, 96 h): 961 mg/l Experimental result, Key study
Oxirane, 2-ethyl-	LC 50 (Leuciscus idus, 96 h): > 100 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Specified substance(s): 1-Propanol	EC 50 (Daphnia magna, 48 h): 3,644 mg/l Experimental result, Key study
2-Propanol, 2-methyl-	NOAEL (Daphnia magna, 48 h): 180 mg/l Experimental result, Key study EC 50 (Daphnia magna, 48 h): 933 mg/l Experimental result, Key study



Oxirane, 2-ethyl-	EC 50 (Daphnia magna, 48 h): 70 mg/l Experimental result, Key study
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# Chronic hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): 2-Propanol, 2-methyl-	NOAEL (Clarias gariepinus): 332 mg/l Experimental result, Key study
Aquatic Invertebrates Product:	No data available.
Specified substance(s): 1-Propanol	EC 50 (Daphnia magna): > 100 mg/l Experimental result, Key study
Toxicity to Aquatic Plants Product:	No data available.

# Persistence and Degradability

Biodegradation Product:	No data available.
Specified substance(s): Propane, 1-bromo-	70 % Detected in water. QSAR, Key study
1-Propanol	81 % Detected in water. Experimental result, Key study
2-Propanol, 2-methyl-	2.6 - 5.1 % (29 d) Detected in water. Experimental result, Key study
Oxirane, 2-ethyl-	80 - 90 % Detected in water. Experimental result, Key study
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Specified substance(s): 1-Propanol	Bioconcentration Factor (BCF): 0.88 Aquatic sediment Estimated by calculation, Supporting study
Partition Coefficient n-octanol / w Product:	vater (log Kow) No data available.
Mobility in soil:	No data available.
Known or predicted distribut Propane, 1-bromo- Carbon dioxide 1-Propanol 2-Propanol, 2-methyl- Oxirane, 2-ethyl-	tion to environmental compartments No data available. No data available. No data available. No data available. No data available.
Other adverse effects:	Harmful to aquatic organisms.



# 13. Disposal considerations

Disposal instructions:

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging:

No data available.

# 14. Transport information

# DOT

UN Number: UN Proper Shipping Name: Transport Hazard Class(es)	UN 1950 Aerosols, non-flammable
Class:	2.2
Label(s): Packing Group: Marine Pollutant:	– II No
Environmental Hazards: Marine Pollutant	No No
Special precautions for user:	Not regulated.
IMDG	
UN Number: UN Proper Shipping Name: Transport Hazard Class(es)	UN 1950 Aerosols, non-flammable
Class:	2
Label(s): EmS No.:	-
Packing Group:	-
Environmental Hazards: Marine Pollutant	No No
Special precautions for user:	Not regulated.
ΙΑΤΑ	
UN Number:	UN 1950
Proper Shipping Name: Transport Hazard Class(es):	Aerosols, non-flammable
Class:	2.2
Label(s): Packing Group:	_
Environmental Hazards: Marine Pollutant	No No
Special precautions for user: Cargo aircraft only:	Not regulated. Allowed.

# 15. Regulatory information

# **US Federal Regulations**

Restrictions on use: Not known.



# TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

# CERCLA Hazardous Substance List (40 CFR 302.4):

	Chemical Identity	Reportable quantity
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Propane, 1-bromo-	lbs. 100
1-Propanol	lbs. 100
2-Propanol, 2-methyl-	lbs. 100
Oxirane, 2-ethyl-	lbs. 100

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Carcinogenicity Toxic to reproduction Specific Target Organ Toxicity - Single Exposure Specific Target Organ Toxicity - Repeated Exposure

## SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

## SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Propane, 1-bromo-	lbs. 100
1-Propanol	lbs. 100
2-Propanol, 2-methyl-	lbs. 100
Oxirane, 2-ethyl-	lbs. 100

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
Propane, 1-bromo-	10000 lbs
Carbon dioxide	10000 lbs
1-Propanol	10000 lbs
2-Propanol, 2-methyl-	10000 lbs
Oxirane, 2-ethyl-	10000 lbs

#### SARA 313 (TRI Reporting)

	Reporting threshold	Reporting threshold for
Chemical Identity	for other users	manufacturing and processing
Propane, 1-bromo-	lbs	lbs.
2-Propanol, 2-methyl-	lbs	lbs.
Oxirane, 2-ethyl-	lbs	lbs.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) US State Regulations

#### **US. California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Propane, 1-bromo-	Male reproductive toxin. 03 2008
Propane, 1-bromo-	Female reproductive toxin. 03 2008
Propane, 1-bromo-	Developmental toxin. 03 2008
Propane, 1-bromo-	Carcinogenic. 07 2017



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

Chemical Identity Propane, 1-bromo-Carbon dioxide 1-Propanol 2-Propanol, 2-methyl-Oxirane, 2-ethyl-

# US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

# US. Pennsylvania RTK - Hazardous Substances

# **Chemical Identity**

Propane, 1-bromo-Carbon dioxide 1-Propanol 2-Propanol, 2-methyl-Oxirane, 2-ethyl-

# US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

# International regulations

## **Montreal protocol**

Not applicable

## Stockholm convention

Not applicable

## **Rotterdam convention**

Not applicable

# Kyoto protocol



Inventory Status: Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Ontario Inventory:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	On or in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	Not in compliance with the inventory.

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

Issue Date:	01/22/2020
Revision Information:	No data available.
Version #:	1.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.