

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Name Terand Punch

**Other means of identification**

Product Code TB-47000000-00

**Recommended use of the chemical and restrictions on use**

Recommended use Degreaser  
Uses Advised Against For industrial and institutional use only.

**Details of the supplier of the safety data sheet**

Company Name CHEM-MASTER ACQUISITIONS, LLC  
PO Box 220908  
St. Louis, MO 63122  
800-592-5080

**Emergency telephone number**

Emergency Telephone CHEMTEL 1-800-255-3924

### 2. HAZARDS IDENTIFICATION

**Classification**

Flammable Aerosol	Category 1
Liquefied Gas	
Eye Irritant	Category 2A
Skin Sensitization	Category 1B

**Label elements****Emergency Overview****DANGER****Hazard statements**

Extremely Flammable Aerosol. Contains gas under pressure: May explode if heated. Causes eye irritation. May cause an allergic skin reaction.

**Appearance:** White Foam**Physical state:** Liquefied Gas**Odor:** Citrus scent**Precautionary Statements - Prevention**

Keep away from heat, sparks, open flames, and 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 hands thoroughly after handling. Wear eye protection and protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse.

**Precautionary Statements - Response**

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 attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, state, and federal law.

**Hazards not otherwise classified (HNOC)****Other Information**

• N/A

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Diethylene Glycol n-Butyl Ether	112-34-5	5-10%	*
d-Limonene	5989-27-5	1-5%	*
Petroleum Distillates, Hydrotreated light	64742-47-8	1-5%	*
Propane	74-98-6	1-5%	*
n-Butane	106-97-8	1-5%	*
4-Nonylphenol branched, ethoxylated	127087-87-0	1-3%	*

**\*The exact percentage (concentration) of composition has been withheld as a trade secret.**

### 4. FIRST AID MEASURES

**First aid measures****Skin Contact**

Wash thoroughly with soap and water.

**Eye Contact**

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 or attention.

**Inhalation**

Move to fresh air.

**Ingestion**

If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

**Most important symptoms and effect, both acute and delayed****Symptoms**

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision

CHRONIC HEALTH HAZARDS: May be toxic to kidneys and liver.

**Indication of any immediate medical attention and special treatment needed****Note to physicians**

There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Dry chemical, foam, or Carbon Dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media: N/A**

**Unusual fire and explosion hazards**

Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

**Hazardous combustion products**

Oxides of carbon

**Special fire fighting procedures**

Wear SCBA in fire situations. Use water spray to cool containers exposed to fire.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

Refer to section 8 for proper Personal Protective Equipment.

**Methods and material for containment and cleaning up**

**Methods for containment & cleaning up**

Absorb spill with non-combustible material such as vermiculite, sand or earth. Dispose of in accordance with local, state and federal regulations. Do not puncture container, wrap container and place in trash collection.

**RCRA status**

Waste likely considered non-hazardous under RCRA, however, product should be fully characterized prior to disposal (40 CFR 261).

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**

Keep out of the reach of children.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use.

**Incompatible Materials**

Strong oxidizing agents, strong reducing agents, acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Diethylene Glycol n-Butyl Ether	Not Established	25 ppm
d-Limonene	Not Established	Not Established
Petroleum Distillates, Hydrotreated light	Not Established	200 mg/m3
Propane	1000 ppm	1000 ppm
n-Butane	1000 ppm	1000 ppm
4-Nonylphenol branched, ethoxylated	Not Established	Not Established

**Appropriate engineering controls**

**Engineering Controls**

Use only in well ventilated areas. Local ventilation/exhaust preferred.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Safety glasses
<b>Skin and body protection</b>	Chemical resistant gloves
<b>Respiratory protection</b>	Wear NIOSH/MSHA approved organic vapor respiratory protection if listed exposure limits are exceeded.
<b>Additional Measures</b>	Wash hands thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquefied Gas
<b>Appearance</b>	White Foam
<b>Color</b>	White
<b>Odor</b>	Citrus scent
<b>Odor Threshold</b>	N/D

<u>Property</u>	<u>Values</u>
<b>pH</b>	11-12
<b>Melting Point/Freezing Point</b>	N/D
<b>Initial Boiling Point And Boiling Range</b>	> 212°F (100°C)
<b>Flash Point</b>	N/D
<b>Evaporation Rate</b>	Slow
<b>Flammability (Solid/Gas)</b>	Extremely Flammable Aerosol
<b>Upper/Lower Flammability Or Explosive Limits</b>	
<b>Lower Flammability Limit</b>	N/D
<b>Upper Flammability Limit</b>	N/A
<b>Explosive Limit Lower(%)</b>	N/D
<b>Explosive Limit Upper(%)</b>	N/D
<b>Vapor Pressure (mm Hg)</b>	N/D
<b>Vapor Density (AIR=1)</b>	N/D
<b>Relative Density (H2O=1)</b>	0.90-1.00
<b>Solubility (IES)</b>	92%
<b>Partition Coefficient</b>	N/D
<b>Autoignition Temperature</b>	N/D
<b>Decomposition Temperature</b>	N/D
<b>Viscosity</b>	N/D

## 10. STABILITY AND REACTIVITY

### Reactivity

None Known

### Chemical Stability

Stable

### Possibility of Hazardous Reactions

None Known

### Conditions to Avoid

Excessive heat.

### Incompatible Materials

Strong oxidizing agents, strong reducing agents, acids.

### Hazardous Decomposition Products

Oxides of carbon

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure Eyes, Ingestion, Inhalation, Skin

#### Product Information

<b>Skin Contact</b>	May cause irritation, localized defatting.
<b>Eye Contact</b>	May cause irritation, redness.
<b>Inhalation</b>	Causes mild irritation to the respiratory tract.
<b>Ingestion</b>	May cause gastrointestinal irritation, nausea, diarrhea, vomiting.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Diethylene Glycol n-Butyl Ether (112-34-5)	(Oral, Rat): 3950 - 9740 mg/kg, (Mouse) 12,400 mg/kg, (Guinea Pig) 3000 - 4970 mg/kg, (Rabbit) 4450 mg/kg	(Skin, Rabbit): 10,300 mg/kg, (Guinea Pig) 31,700mg/kg, (Mouse & Rat) 5940 mg/kg	(Inhalation, Rat): 960 ppm
d-Limonene (5989-27-5)	(Oral, Rat) 4400 mg/kg (Mouse) 5600 mg/kg	(Dermal, Rabbit) 5000 mg/kg	
Isoparaffinic Hydrocarbon (64742-47-8)	(Oral, Rat) >5000 mg/kg	(Dermal, Rabbit) >2000 mg/kg	

### Information on toxicological effects

#### Symptoms

MEDICAL CONDITION AGGRAVATED: None known

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision

CHRONIC HEALTH HAZARDS: May be toxic to kidneys and liver.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**                      **OSHA:** No                      **ACGIH:** No                      **NTP:** No                      **IARC:** No                      **OTHER:** N/A

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 2B - Possibly Carcinogenic to Humans*

*Group 3 -Not classifiable as a human carcinogen*

*NTP (National Toxicology Program)*

*Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

*X - Present*

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Diethylene Glycol n-Butyl Ether (112-34-5)** LC50 (Lepomis macrochirus, 96hr) 1,300 mg/L; LC50 (Leuciscus idus, 48hr) > 1,000 mg/L; EC50 (Daphnia magna, 48hr) > 100 mg/L; IC50 (Green Algae, 24hr) 100 mg/L; LC50 (Pseudomonas Putida, 16hr) 1,170 mg/L

**Isoparaffinic Hydrocarbon (64742-47-8)** Not toxic to aquatic organisms (fish, daphnia, algae) up to water solubility. May adsorb to sediments and possibly cause toxic effects to organisms.

### Soil Mobility

This product is mobile in soil.

### Persistence and Degradability

This product is biodegradable.

### Bioaccumulation

This product is not expected to bioaccumulate.

**Other Adverse Effects**

None Known

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

<b>Disposal of wastes</b>	Dispose of in accordance with local, state and federal regulations. Do not puncture container, wrap container and place in trash collection.
<b>RCRA status</b>	Waste likely considered non-hazardous under RCRA, however, product should be fully characterized prior to disposal (40 CFR 261).

**14. TRANSPORT INFORMATION**

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**DOT**

<b>UN/ID No.</b>	UN 1950
<b>Proper Shipping Name</b>	Aerosols, Ltd. Qty.
<b>Hazard Class</b>	2.1
<b>Packing Group</b>	N/A

**AIR SHIPMENT**

<b>UN/ID No.</b>	UN 1950
<b>Proper Shipping Name</b>	Aerosols, Flammable
<b>Hazard Class</b>	2.1
<b>Packing Group</b>	N/A

**SHIPPING BY WATER: VESSEL (IMO/IMDG)**

<b>UN/ID No.</b>	UN 1950
<b>Proper Shipping Name</b>	Aerosols, Ltd. Qty.
<b>Hazard Class</b>	2.1
<b>Environmental Hazards Water</b>	N/A
<b>Packing Group</b>	N/A

**15. REGULATORY INFORMATION****International Inventories**

**TSCA** All Chemicals are listed or exempt.

**Legend:**

**TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**

**US Federal Regulations****SARA 313**

Diethylene Glycol n-Butyl Ether (DB) (112-34-5)

**SARA 311/312 Hazard Categories**

None

**CERCLA**

None

**CWA (Clean Water Act)**

None

**US State Regulations**

California Proposition 65: None

**U.S. State Right-to-Know Regulations**

Included on State Hazardous Substances Inventories, Right-to-Know lists and/or Air Quality or Air Pollutants lists for the following states:

Chemical Name	CA	DE	ID	ME	MA	MN	NJ	PA	NY	RI	WA	CT	FL	IL	TN	LA
Distillates, Petroleum, Hydrotreated, Light (64742-47-8)							X	X		X						

**International Regulations**

Diethylene Glycol n-Butyl Ether (112-34-5): European Union - EINECS, Australia - AICS, Japan - ENCS, Korean - ECL, (WHMIS) Canada

**Volatile Organic Compounds (VOC)**

9.9%

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards	1	Flammability	2	Reactivity	0	Other	None
<b>HMIS</b>	Health hazards	1	Flammability	2	Reactivity	0	Personal protection	A

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Revision Note

N/A = Not Applicable; N/D = Not Determined

**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.

**End of Safety Data Sheet**