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Version 2

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

Product Name Terand Industrial Solvent Degreaser

#### Other means of identification

Product Code TB-52100000-00

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

Recommended use Solvent Cleaner

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

Gases Under Pressure	Dissolved Gas
Skin Irritant	Category 2
Eye Irritant	Category 2A
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B
Specific Target Organ Toxicity (Single Exposure)	Category 3

#### Label elements

#### Emergency Overview

### DANGER

#### **Hazard statements**

Contains gas under pressure; may explode if heated. Causes skin and serious eye irritation. Suspected of causing genetic defects. May cause cancer. May cause drowsiness or dizziness.



**Appearance:** Clear, colorless spray

**Physical state:** Dissolved Gas

**Odor:** Chlorinated solvent odor



#### **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. Avoid breathing fumes, mist, vapors, and spray. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves, eye protection and protective clothing.

**Precautionary Statements - Response**

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention.

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/120 °F. Store in a well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, state, and national regulations.

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

- N/A

Unknown Acute Toxicity

N/A

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Trichloroethylene	79-01-6	80-100%	*
Carbon dioxide	124-38-9	1-5%	*

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

**4. FIRST AID MEASURES****First aid measures****Skin Contact**

Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention.

**Inhalation**

Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration. Keep person warm, quiet and seek immediate medical attention.

**Ingestion**

Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention.

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

ACUTE HEALTH HAZARDS: Causes skin irritation including redness, burning and drying/cracking. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Possible cancer-causing agent and overexposure may cause dermatitis, dizziness, headache, nausea, mental confusion, and visual disturbances and may damage kidneys, liver, lungs, blood or central nervous system.

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

Do not administer adrenaline or epinephrine to a victim of chlorinated solvent poisoning. This product contains ingredients that may be anticipated to be a carcinogen.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Dry chemical, carbon dioxide, alcohol foam, and water spray.

**Unsuitable extinguishing media:** N/A

### Unusual fire and explosion hazards

Contents under pressure. Exposure to temperatures above 120°F may cause bursting. Keep away from sparks, open flames, and hot surfaces. No smoking.

### Hazardous combustion products

Oxides of carbon, chlorine, hydrogen chloride and phosgene.

### Special fire fighting procedures

Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Shut off all sources of ignition. Use water spray to disperse vapor and cool fire exposed containers. Prevent run off from entering streams, sewers, or drinking water supply.

## 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

Eliminate all sources of ignition. Use absorbent on spill, sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material. Dispose of contents in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

#### RCRA status

Waste solvent likely considered U228 (Trichloroethylene), 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 away from heat, open flames, or other sources of ignition. Avoid contact with skin, eyes and clothing. Do not inhale mist or vapor. Use only with adequate ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warning and precautions listed for the product. Keep out of the reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Store in a cool, dry area. Do not use or store with strong oxidizers. 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 acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Trichloroethylene	100 ppm	10 ppm
Carbon dioxide	5000 ppm	5000 ppm

Appropriate engineering controls

**Engineering Controls** Use only outdoors or in a well-ventilated area.

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 used in confined, poorly ventilated areas.

**Additional Measures**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective clothing to prevent repeated or prolonged contact with product. Wash hands thoroughly after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties

<b>Physical State</b>	Dissolved Gas
<b>Appearance</b>	Clear, colorless spray
<b>Color</b>	Clear, colorless
<b>Odor</b>	Chlorinated solvent odor
<b>Odor Threshold</b>	N/D

<u>Property</u>	<u>Values</u>
<b>pH</b>	N/A
<b>Melting Point/Freezing Point</b>	N/D
<b>Initial Boiling Point And Boiling Range</b>	N/D
<b>Flash Point</b>	N/D
<b>Evaporation Rate</b>	N/D
<b>Flammability (Solid/Gas)</b>	Not considered a flammable aerosol or an extremely flammable aerosol by OSHA (29CFR 1910.1200)
<b>Upper/Lower Flammability Or Explosive Limits</b>	N/D
<b>Lower Flammability Limit</b>	N/D
<b>Upper Flammability Limit</b>	N/D
<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 (H<sub>2</sub>O=1)</b>	1.46 - 1.47
<b>Solubility (IES)</b>	0%
<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

Chemically active metals and acids.

Chemical Stability

Stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Temperatures greater than 122 °F and sources of ignition. Avoid incompatibles

**Incompatible Materials**

Strong acids, strong alkalis, strong oxidizing agents, chemically active metals, such as aluminum, barium, lithium, sodium, magnesium, potassium, titanium, beryllium, concentrated nitric acid some plastics, rubbers, and coatings.

**Hazardous Decomposition Products**

Oxides of carbon, chlorine, hydrogen chloride and phosgene.

## **11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure** Eyes, Ingestion, Inhalation, Skin**Product Information**

<b>Skin Contact</b>	Irritation likely, redness and pain. May cause localized defatting, blistering with prolonged skin contact. May be absorbed through the skin.
<b>Eye Contact</b>	Causes irritation, burning, redness, tearing.
<b>Inhalation</b>	Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.
<b>Ingestion</b>	Causes gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, abdominal cramps.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Trichloroethylene (79-01-6)	(Oral, Rat) 4920 mg/kg	(Dermal, Rabbit)> 20000 mg/kg	(Inhalation, Mouse, 4h) 8450 ppm
Carbon dioxide (124-38-9)			(Inhalation, Rat, 30 min) 470,000 ppm

**Information on toxicological effects****Symptoms**

**MEDICAL CONDITION AGGRAVATED:** Excessive exposure will aggravate pre-existing disorders of eyes, skin, respiratory, liver, kidney, cardiovascular system, pulmonary illnesses, or central nervous system.

**ACUTE HEALTH HAZARDS:** Causes skin irritation including redness, burning and drying/ cracking. Causes eye irritation including redness, tearing, and pain. Inhalation of vapors may cause nausea, dizziness and drowsiness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**CHRONIC HEALTH HAZARDS:** Possible cancer-causing agent and overexposure may cause dermatitis, dizziness, headache, nausea, mental confusion, and visual disturbances and may damage kidneys, liver, lungs, blood or central nervous system.

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

**Carcinogenicity** OSHA:Yes ACGIH: A2 - Suspected NTP: 2 - Anticipated IARC: 2A - Probable OTHER: CA Prop 65

**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**

Harmful to aquatic life with long lasting effects. **Trichloroethylene (79-01-6):** LC<sub>50</sub> (*Pimephales promelas*, 96h) 41 - 67 mg/L; LC<sub>50</sub> (Mollusk shrimp, 96h) 2 mg/L; EC<sub>50</sub> (*Daphnia*, 48h) 2.2 - 100 mg/L.

**Soil Mobility**

This product is mobile in soil.

**Persistence and Degradability**

Component or components of this product are not biodegradable.

**Bioaccumulation**

This product is not expected to bioaccumulate.

**Other Adverse Effects**

None known.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Dispose of contents in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection. Do not puncture, incinerate, or reuse container.

**RCRA status**

Waste solvent likely considered U228 (Trichloroethylene), 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.

<u>DOT</u>	<u>AIR SHIPMENT</u>		
UN/ID No.	UN 1950	UN/ID No.	UN 1950
Proper Shipping Name	Aerosols, Ltd. Qty.	Proper Shipping Name	Forbidden by USDOT Regulations
Hazard Class	2.2 (6.1)	Hazard Class	2.2 (6.1)
Packing Group	N/A	Packing Group	N/A

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

UN/ID No.	UN 1950
Proper Shipping Name	Aerosols
Hazard Class	2.2 (6.1)
Environmental Hazards Water	Marine Pollutant
Packing Group	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**

Trichloroethylene (79-01-6)

**SARA 311/312 Hazard Categories**

Gas under pressure. Skin corrosion or irritation. Serious eye damage or eye irritation. Germ cell mutagenicity. Carcinogenicity. Specific target organ toxicity (single or repeated exposure).

**CERCLA**

Trichloroethylene (79-01-6) Reportable Quantity = 100 pounds

**US State Regulations**

**California Proposition 65:** This product can expose you to chemicals including Trichloroethylene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**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	MI	MA	MN	NJ	PA	NY	RI	WA	CT	FL	IL	TN	LA
Trichloroethylene (79-01-6)				X	X	X	X	X	X	X		X	X	X	X	X

**International Regulations**

Listed or exempt from listing/notification on the following chemical inventories: Australian Inventory of Industrial Chemicals (AIIC, Australia); Domestic Substances List (DSL, Canada); Inventory of Existing Chemical Substances in China (IECSC, China); Korea Existing Chemical Inventory (KECI, Korea); New Zealand Inventory of Chemicals (NZIoC, New Zealand); Philippine Inventory of Chemicals and Chemical Substances (PICCS, Philippines).

**Volatile Organic Compounds (VOC)**

96%

**16. OTHER INFORMATION**

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

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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**