

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier**Product Name** Terand Citra Grime**Other means of identification****Product Code** TB-48800000-00**Recommended use of the chemical and restrictions on use****Recommended use** Cleaner and 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 2
Gases Under Pressure	Liquefied Gas
Eye Irritant	Category 2A
Skin Sensitization	Category 1

Label elements**Emergency Overview****WARNING****Hazard statements**

Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause an allergic skin reaction.

**Appearance:** White Foam**Physical state:** Liquefied Gas**Odor:** Citrus**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.

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 advice or attention. Avoid breathing mist, vapors or spray. Contaminated work clothing must not be allowed out of the workplace. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. Wash contaminated clothing before reuse.

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 and container in accordance with local, state and federal 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
n-Butane	106-97-8	1-5%	*
d-Limonene	5989-27-5	1-5%	*
Propane	74-98-6	1-5%	*
4-Nonylphenol, branched, ethoxylated	127087-87-0	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 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 if irritation persists.

Inhalation

Move to fresh air. If irritation or other symptoms develop, seek medical attention.

Ingestion

Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists. Never give anything by mouth to an unconscious person.

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

ACUTE HEALTH HAZARDS: Prolonged contact with skin may cause irritation. May cause an allergic skin reaction. Causes eye irritation including redness, tearing, and pain. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation. May cause skin sensitization.

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

Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use appropriate media for surrounding fire.

Unsuitable extinguishing media: N/A

Unusual fire and explosion hazards

FLAMMABLE. Contents under pressure. Exposure to temperatures above 120°F may cause bursting. Keep away from heat, sparks, open flames and other sources of ignition.

Hazardous combustion products

Oxides of carbon and unidentified organic compounds may be formed during combustion.

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.

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. Clean up using cloth or absorbent material. Dispose of product-containing wiping cloth or absorbent paper in suitable manner. Place waste in proper containers for disposal. Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate 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 CFR261).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

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. Pressurized container: Do not pierce or burn, even after use. Do not use or store near heat, open flames or other sources of ignition. Wear proper personal protective equipment when using this product. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling. Wash contaminated clothing and shoes thoroughly before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Store in a cool, dry area. Protect from sunlight. Store in a well ventilated area. Do not expose to temperatures exceeding 50°C/122°F.

Incompatible Materials

None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	OSHA PEL	ACGIH TLV
n-Butane	Not Established	1000 ppm
d-Limonene	Not Established	Not Established
Propane	1000 ppm	1000 ppm
4-Nonylphenol, branched, ethoxylated	Not Established	Not Established

Appropriate engineering controls

Engineering Controls General ventilation adequate

Individual protection measures, such as personal protective equipment

Eye/face protection	Safety glasses/goggles
Skin and body protection	Chemical resistant gloves
Respiratory protection	Wear NIOSH/MSHA approved respiratory protection if used in confined, poorly ventilated areas.

Additional Measures

Do not touch eyes when using this product. Wash hands thoroughly with soap and water after use. If clothing becomes contaminated, immediately remove and wash. Contaminated work clothing must not be allowed out of the workplace.

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

Physical State	Liquefied Gas
Appearance	White Foam
Color	White
Odor	Citrus.
Odor Threshold	N/D

<u>Property</u>	<u>Values</u>
pH	11.7-12.5
Melting Point/Freezing Point	N/D
Initial Boiling Point And Boiling Range	N/D
Flash Point	N/D
Evaporation Rate	0.1 Slow
Flammability (Solid/Gas)	Flammable Aerosol
Upper/Lower Flammability Or Explosive Limits	
Lower Flammability Limit	N/D
Upper Flammability Limit	N/D
Explosive Limit Lower(%)	N/D
Explosive Limit Upper(%)	N/D
Vapor Pressure (mm Hg)	N/D
Vapor Density (AIR=1)	N/D
Relative Density (H2O=1)	0.985 - 1.003@ 77 °F (25 °C).
Solubility (IES)	100% water.
Partition Coefficient	N/D
Autoignition Temperature	N/D
Decomposition Temperature	N/D
Viscosity	N/D

10.STABILITY AND REACTIVITY**Reactivity**

None known.

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

None known.

Hazardous Decomposition Products

None known.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure Eyes, Inhalation, Skin****Product Information**

Skin Contact	May cause irritation, dryness, redness with prolonged or repeated contact.
Eye Contact	Causes irritation, redness, tearing, pain.
Inhalation	May cause respiratory tract irritation.
Ingestion	Not a likely route of exposure under normal product handling conditions. May cause gastrointestinal irritation, nausea, diarrhea, vomiting.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
n-Butane (106-97-8)			(Inhalation, Rat, 4h) 30957 mg/m ³
d-Limonene (5989-27-5)	(Oral, Rat) 4400 mg/kg (Mouse) 5600 mg/kg	(Dermal, Rabbit) 5000 mg/kg	
4-Nonylphenol, branched, ethoxylated (127087-87-0)	(Oral) 3314 mg/kg	(Dermal, Rabbit) > 3000 mg/kg	
Propane (74-98-6)			(Inhalation, Rat, 4h) 658 mg/L

Information on toxicological effects**Symptoms**

MEDICAL CONDITION AGGRAVATED: Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.

ACUTE HEALTH HAZARDS: Prolonged contact with skin may cause irritation. May cause an allergic skin reaction. Causes eye irritation including redness, tearing, and pain. Inhalation of mist or vapors may cause respiratory irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

CHRONIC HEALTH HAZARDS: Dermatitis may occur due to long-term irritation. May cause skin sensitization.

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

Carcinogenicity **OSHA:** No **ACGIH:** No **NTP:** No **IARC:** 3 - Not classifiable **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

d-Limonene (5989-27-5): EC₅₀ (*Pimephales promelas*, 96h) 688 µg/L; EC₅₀ (*Daphnia magna*, 48h) 421 µg/L. **4-Nonylphenol, branched, ethoxylated (127087-87-0):** LC₅₀ (*Pimephales promelas*, 96h) 7.7 mg/L; EC₅₀ (*Daphnia*, 48h) 21.4 mg/L.

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

Disposal of wastes

Dispose of in accordance with local, state and federal regulations. Do not reuse, puncture or incinerate 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 CFR261).

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	Aerosols, Flammable
Hazard Class	2.1	Hazard Class	2.1
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	2.1
Environmental Hazards Water	N/A
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

This product does not contain any chemical components with known CAS numbers that exceed the threshold (*de minimis*) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazard Categories

Flammable (gases, aerosols, liquids, solids). Gas under pressure. Serious eye damage or eye irritation. Respiratory or skin sensitization.

CERCLA

None.

CWA (Clean Water Act)

None.

US State Regulations

California Proposition 65: This product does not contain chemicals regulated by California Proposition 65.

International Regulations

No information available.

Volatile Organic Compounds (VOC)

9.8%

16. OTHER INFORMATION

NFPA	Health hazards	1	Flammability	2	Reactivity	0	Other	None
HMIS	Health hazards	1	Flammability	2	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