

SAFETY DATA SHEET

Odor: Aliphatic solvent odor

Issue Date 08/29/2013 Revision Date 09/29/2014 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Terand Start-Er-Up

Other means of identification

Product Code 5160

Recommended use of the chemical and restrictions on use

Recommended use Aids gas/diesel engine start-up

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			
Skin Irritant	Category 2		
Eye Irritant	Category 2A		
Reproductive Toxicity	Category 2		
Specific Target Organ Toxicity (Single Exposure)	Category 3		
Aspiration Hazard	Category 1		

Label elements

Emergency Overview

DANGER

Hazard statements

Extremely Flammable Aerosol Contains gas under pressure; May explode if heated. Causes eye and skin irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness and dizziness. May be fatal if swallowed and enters airways.



Appearance: Clear, Colorless to Pale

Yellow Liquid

Physical state: Liquefied Gas





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Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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, vapors and spray. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves and eye protection.

Precautionary Statements - Response

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. If swallowed: Immediately call a poison center or doctor. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If exposed or concerned: Get medical advice or attention.

Precautionary Statements - Storage

Store locked up. 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 national regulations.

Hazards not otherwise classified (HNOC)

Hydrotreated Heavy Naphthenic Petroleum Distillate

Other Information

N/A

Unknown Acute Toxicity

11.8 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS										
CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET							
Heptane	142-82-5	40-50%	*							
Ethyl Ether	60-29-7	10-30%	*							
Propane	74-98-6	10-30%	*							
Isobutane	75-28-5	10-15%	*							
Carbon Dioxide	124-38-9	3-7%	*							

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

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4. FIRST AID MEASURES

First aid measures

Skin Contact Wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing

and shoes immediately. Seek medical attention if irritation persists.

Eye Contact Remove contact lenses. Flush with water for at least 15 minutes. See a physician if

irritation persists.

Inhalation Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer

artificial respiration or at any sign of loss of consciousness seek immediate medical

1-5%

attention.

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

Seek medical attention if irritation persists.

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Most important symptoms and effect, both acute and delayed

Symptoms ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision. Skin: defatting and dermatitis. Inhalation: Anesthetic, irritation, Central Nervous System depression.

Oral: abdominal irritation, nausea, vomiting, diarrhea, aspiration risk, death

CHRONIC HEALTH HAZARDS: Skin disorders, drying and irritation of the skin.

Indication of any immediate medical attention and special treatment needed

Note to physicians If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

Treat appropriately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, carbon dioxide, and alcohol foam.

Unsuitable extinguishing media: Water spray/stream.

Unusual fire and explosion hazards

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

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 Clean up with non-combustible material like vermiculite, sand or earth. If many

cans are opened remove ignition sources. Prevent spill from entering sewers, storm drains, and natural waterways. Dispose of in accordance with federal, state, and local regulations. Do not flame cut, braze, or weld. Empty container very hazardous!

RCRA status Waste likely considered 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 reach of children and do not store near food, drink, or animal food.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area, keep containers tightly closed and dry.

Incompatible Materials Strong oxidizers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

CHEMICAL NAME	OSHA PEL	ACGIH TLV
Heptane	400 ppm	400 ppm
Ethyl Ether	400 ppm	400 ppm
Propane	1000 ppm	1000 ppm
Isobutane	Not Established	1000 ppm
Carbon Dioxide	5000 ppm	5000 ppm
Hydrotreated Heavy Naphthenic Petroleum Distillate	400 ppm	Not Established

Appropriate engineering controls

Engineering Controls

Use only outdoors or in a well-ventilated area.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses

Skin and body protection Chemical resistant gloves

Respiratory protection Wear NIOSH/MSHA approved organic vapor respiratory protection if exposure limits

are exceeded.

Additional Measures Do not touch eyes when using this product. Wash hands thoroughly with soap and

water after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquefied Gas

Appearance Clear, Colorless to Pale Yellow Liquid Color Clear, Colorless to Pale Yellow

Odor Aliphatic solvent odor

Odor Threshold N/D

<u>Property</u> <u>Values</u>

pH N/A

Boiling Point -43.6°F (-42°C)

Freezing Point N/D

Flammability Extremely Flammable Aerosol

Flash Point -10°F (-23°C)
Autoignition Temperature 356°F (180°C)

Lower Flammability Limit 1.2% **Upper Flammability Limit** 6.7% Vapor Pressure (mm Hg) N/D Vapor Density (Air=1) N/D **Evaporation Rate** N/D Specific Gravity ((H2O=1) N/D Solids (%) N/D Solubility In Water Immiscible

Partition Coefficient n-OCTANOL/WATER (KOW): N/D

Volatility Including Water (%)100 %Volatile Organic Compounds (Voc)75%Dielectric Strength (Volts)N/DDecomposition TemperatureN/DViscosityN/D

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10.STABILITY AND REACTIVITY

Reactivity

If exposed to strong oxidizers, presents explosion hazard.

Chemical Stability

Stable

Possibility of Hazardous Reactions

Will not occur

Conditions to Avoid

Temperatures greater than 120°F and sources of ignition.

Incompatible Materials

Strong oxidizers

Hazardous Decomposition Products

Oxides of carbon

11.TOXICOLOGICAL INFORMATION

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

Product Information

Skin ContactCauses irritation, redness, dryness with repeated or prolonged exposure.

Eye Contact Causes irritation, redness, tearing, pain.

Inhalation Causes dizziness, headaches, nausea, central nervous system depression, excessive or prolonged

exposure may cause unconsciousness.

Ingestion May cause gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, dizziness, drowsiness,

signs of intoxication, in-coordination, and death.

Toxicological Information

Not Established

Information on toxicological effects

Symptoms MEDICAL CONDITION AGGRAVATED: Pre-existing conditions of the skin, liver, CNS, and

kidneys.

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision. Skin: defatting and dermatitis. Inhalation: Anesthetic, irritation, Central Nervous System depression. Oral:

abdominal irritation, nausea, vomiting, diarrhea, aspiration risk, death.

CHRONIC HEALTH HAZARDS: Skin disorders, drying and irritation of the skin.

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

Not Established

Soil Mobility

This product is mobile in soil.

Persistence and Degradability

Component or components of this product are not biodegradable.

Bioaccumulation

Components in this mixture can bioaccumulate in aquatic organisms.

Other Ecological Hazards

This material is toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastesDispose of in accordance with federal, state, and local regulations. Do not flame cut, braze, or

weld. Empty container very hazardous!

RCRA status Waste likely considered 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 AIR SHIPMENT

UN/ID No. UN 1950 **UN/ID No.** UN 1950

Proper Shipping Name Aerosols, Ltd. Qty. Proper Shipping Name Aerosols, Ltd. Qty.

Hazard Class 2.1 Hazard Class 2.1

Packing Group N/A

SHIPPING BY WATER: VESSEL (IMO/IMDG)

UN/ID No. UN 1950

Proper Shipping Name Aerosols, Ltd. Qty.

Hazard Class 2.1 Environmental Hazards Water 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

None

SARA 311/312 Hazard Categories

Acute Health Fire Hazard

CERCLA

None

US State Regulations

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	СА	DE	ID	ME	MA	MN	NJ	PA	NY	RI	WA	СТ	FL	IL	TN	LA
Heptane (142-82-5)	Х				Х	Х	Χ	Χ		Χ		Χ		Χ		

International Regulations

All components are listed or exempted.

16. OTHER INFORMATION

<u>NFPA</u>	Health hazards	2	Flammability	4	Reactivity	2	Other	В
<u>HMIS</u>	Health hazards	2	Flammability	4	Reactivity	2	Personal protection	NONE

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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