

SECTION I - IDENTIFICATION

PRODUCT NAME: Start-Er-Up
PRODUCT CODE: 5160
PRODUCT USE: Aids gas/diesel engine start-up
COMPANY NAME: Misco Industrial, LLC
COMPANY ADDRESS: 109 Space Park N, Goodlettsville, TN 37072
COMPANY PHONE: 1-615-334-1861
EMERGENCY PHONE: 800-255-3924

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol: Category 1
 Liquefied Gas
 Skin Irritant: Category 2
 Eye Irritant: Category 2A
 Reproductive Toxicity: 2
 Specific Target Organ Toxicity (Single Exposure): Category 3
 Aspiration Hazard: Category 1

HAZARD STATEMENT(S): DANGER: 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.

This product contains the following percentage of chemicals of unknown toxicity: 11.8%

PRECAUTIONARY STATEMENTS: 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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves and eye protection. 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. 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. Avoid breathing fumes, vapors and spray. Use only outdoors or in a well-ventilated area. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations.



SYMBOL:
HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
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%
Hydrotreated Heavy Naphthenic Petroleum Distillate	64742-52-5	1-5%

SECTION IV - FIRST AID MEASURES

EYES: Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.
INGESTION: Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists.

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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 attention.

SKIN: Wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.

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.

NOTE TO PHYSICIAN: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, and alcohol foam.

UNSUITABLE EXTINGUISHING MEDIA: Water spray/stream.

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.

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.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: 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.

WASTE DISPOSAL: 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).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area, keep containers tightly closed and dry. Keep out of reach of children and do not store near food, drink, or animal food.

INCOMPATIBILITY: Strong oxidizers

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	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

ENGINEERING CONTROLS / VENTILATION: Use only outdoors or in a well-ventilated area.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection if exposure limits are exceeded.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves

ADDITIONAL MEASURES: Do not touch eyes when using this product. Wash hands thoroughly with soap and water after use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, Colorless to Pale Yellow Liquid

ODOR: Aliphatic solvent odor

ODOR THRESHOLD: N/D

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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
pH: N/A
SOLIDS (%): N/D
SOLUBILITY IN WATER: Immiscible
PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D
VOLATILITY INCLUDING WATER (%): 100 %
VOLATILE ORGANIC COMPOUNDS (VOC): 75%
DIELECTRIC STRENGTH (Volts): N/D
DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: If exposed to strong oxidizers, presents explosion hazard.
CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: Temperatures greater than 120°F and sources of ignition.
INCOMPATIBILITY: Strong oxidizers
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon
POSSIBLE HAZARDOUS REACTIONS: Will not occur

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Not Established
ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin
EYES: Causes irritation, redness, tearing, pain.
INGESTION: May cause gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, dizziness, drowsiness, signs of intoxication, incoordination, and death
INHALATION: Causes dizziness, headaches, nausea, central nervous system depression, excessive or prolonged exposure may cause unconsciousness.
SKIN: Causes irritation, redness, dryness with repeated or prolonged exposure.
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.
CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Not Established
BIODEGRADABILITY: Component or components of this product are not biodegradable.
BIOACCUMULATION: Components in this mixture can bioaccumulate in aquatic organisms.
SOIL MOBILITY: This product is mobile in soil.
OTHER ECOLOGICAL HAZARDS: This material is toxic to aquatic life.

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SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: 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).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

PACKAGING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

ENVIRONMENTAL HAZARDS WATER: N/A

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: Acute Health Fire Hazard

SARA 313 REPORTABLE INGREDIENTS: None

STATE REGULATIONS: Heptane (142-82-5) California Director's List of Hazardous Substances, Connecticut hazardous material survey, Illinois toxic substances disclosure to employee act, New Jersey RTK, Massachusetts RTK, Minnesota RTK, Pennsylvania RTK, Rhode Island RTK

INTERNATIONAL REGULATIONS: All components are listed or exempted.

NFPA HEALTH: 2

HMIS HEALTH: 2

NFPA FLAMMABILITY: 4

HMIS FLAMMABILITY: 4

NFPA REACTIVITY: 1

HMIS REACTIVITY: 2

NFPA OTHER: None

HMIS PROTECTION: B

SECTION XVI - ADDITIONAL INFORMATION

DATE PREPARED: 08/29/2013

REVISION DATE: 09/29/2014

PREPARED BY: Jonathon Jarvis

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

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regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.