

SAFETY DATA SHEET

1. Identification

Product Name: Low Temperature Starting Fluid

Recommended use: Aerosols

Recommended restrictions: Not known

Manufacturer/Importer/Supplier/Distributor information

Company name: Shenzhen Sunrise New Energy CO. Ltd.

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2. Hazards Identification

GHS classification in accordance with 29 CFR 1910.1200

Flammable aerosols: Category 1

Skin irritation: Category 2

Eye irritation: Category 2A

Carcinogenicity: Category 2

Specific target organ toxicity -single exposure: Category 3(Central nervous system)

Aspiration hazard: Category 1.

GHS label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness.

Precautionary statement Prevention

Keep away from heat/sparks/open flames/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 mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves.

Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 49°C/120°F.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term Category 2

Hazard Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Substance / Mixture: Mixture

Chemical name	CAS No.	CONTENTS (wt%)
ETHYL ETHER	60-29-7	50-65
Petroleum ether	8032-32-4	10-20
PROPANE	74-98-6	5-15
BUTANE	106-97-8	10-20
CARBON DIOXIDE	124-38-9	2-5

Note: The exact percentages are a trade secret.

4. First Aid Measures**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISONCENTER or doctor/physician if you feel unwell

Skin contact

Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Ingestion

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Aspiration may cause pulmonary edema and pneumonia. May cause drowsiness and dizziness. Headache. Nausea,



vomiting. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delay

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media

Alcohol resistant foam. Powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hoseholder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes

General fire hazards

Extremely flammable aerosol

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water



Environmental precautions

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground

7. Handling and Storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters/ Permissible concentration	Basis
Ethyl ether	60-29-7	TWA	400 ppm	ACGIH
Carbon dioxide	124-38-9	TWA	5,000 ppm	ACGIH

Engineering measures:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects

Personal protective equipment Respiratory protection:

In the case of vapour formation use a respirator with an approved filter. In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection Remarks

Wear resistant gloves (consult your safety equipment supplier). The suitability for a specific workplace should be discussed with the producers of the protective gloves. Discard gloves that show tears, pinholes, or signs of wear.

Eye protection:

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Impervious clothing flame-resistant clothing safety shoes

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. When using do not smoke. When using do not eat or drink

9. Physical and Chemical Properties

Appearance:	aerosol	Boiling point/ boiling range:	34.6 °C(1,013 hPa)
Flash point:	-45 °C The value is calculated	Vapour pressure:	717.26 hPa(25 °C)
Upper explosion limit/ Upper flammability limit:	36.5 %(V)	Lower explosion limit/ Lower flammability limit:	1.05 %(V).
Density:	0.7114 g/cm ³ (15.56 °C)	VOC % By Weight:	99.5 %

10. Stability and Reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: No decomposition if stored and applied as directed.

Possibility of hazardous reactions: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Acids Alkali metals Ammonia Bases halogens Oxidizing agents Sulphur compounds

Hazardous decomposition products: Carbon oxide

Hazardous decomposition products

11. Toxicological Information

Information on likely routes of exposure

Inhalation: May cause drowsiness and dizziness. Headache. Nausea, vomiting.

Skin contact: Causes skin irritation.

Eye contact: Direct contact with eyes may cause temporary irritation.



Ingestion: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics: Aspiration may cause pulmonary edema and pneumonia. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Skin irritation. May cause redness and pain.

Information on toxicological effects Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects

Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization
Germ cell mutagenic	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

IARC Monographs. Overall Evaluation of Carcinogenicity

Butylated Hydroxytoluene (CAS 128-37-0)3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -single exposure May cause drowsiness and dizziness.

Specific target organ toxicity -repeated exposure Not classified.

Aspiration hazard May be fatal if swallowed and enters airways.

12. Ecological Information

Toxicity Additional ecological information

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Diethyl Ether 0.89



Methylcyclohexane 3.61
 n-Heptane 4.66

Ecotoxicity Toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Butylated Hydroxytoluene (CAS 128-37-0)			
Aquatic			
Algae	IC50	Algae	6 mg/L, 72 Hour
Crustacea	EC50	Water flea Daphnia pulex	1.44 mg/l, 48 hours

Diethyl Ether (CAS 60-29-7)

Aquatic

Fish LC50 Fathead minnow Pimephales promelas 2560 mg/l, 96 hours

Estimates for product may be based on additional component data not shown

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Diethyl Ether 0.89
 Methylcyclohexane 3.61.
 n-Heptane 4.66

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creationpotential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulation

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company

Waste from residues / unused products



Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:Disposal instructions)

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

14. Transportation Information

Dangerous goods descriptions (if indicated below) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment

International Regulations

IATA-DGR

UN/ID No.UN 1950

Proper shipping name: Aerosols, flammable

Class:2.1

Packing group: Not applicable.

Labels:2.1

Packing instruction (cargo aircraft): Allowed with restrictions

Packing instruction (passenger aircraft): Allowed with restrictions

IMDG-CodeUN number: UN1950

Proper shipping name: AEROSOLS

Class:2.1

Packing group: Not applicable.

Labels:None

EmS Code:F-E, S-D

Marine pollutant: Yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied: Not applicable.

General information DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

15. Regulatory information

EPCRA -Emergency Planning and Community Right-to-Know ActCERCLAReportable Quantity

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethyl Ether (CAS 60-29-7) Listed

SARA 304 Emergency release notification Not regulated.



OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard – Yes

Delayed Hazard – No

Fire Hazard – Yes

Pressure Hazard – Yes

Reactivity Hazard - No

SARA 302 Extremely hazardous substance: Not listed

SARA 311/312 Hazardous chemical: No

SARA 313 (TRI reporting) Not regulated.

Other federal regulation

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Diethyl Ether (CAS 60-29-7)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations Cal. Code Regs, tit. 22, 69502.3, subd.

16. Other Information:

It is Company Policy to maintain the most accurate and up to date information possible, and Shenzhen sunrise new energy co.,ltd aims to review these Data regularly. The information contained herein is based on data considered accurate and reliable to the best of our knowledge as of the date issued and subsequently made available from Shenzhen sunrise new energy co.,ltd However, no warranty is expressed or implied regarding the accuracy of these Data or the results to be obtained from the use hereof. Persons using these Data are urged by Shenzhen sunrise new energy co.,ltd to satisfy themselves that these Data are the latest available from Shenzhen sunrise new energy co.,ltd and remain current and suitable for particular applications after intervening periods of time. Shenzhen sunrise new energy co.,ltd dassumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such users or vendees assume all risks associated with the use of the material.