SAFETY DATA SHEET

1. Identification

Product Name: Foamy Engine Cleaner

Product code:

Recommended use: Engine cleaner

Recommended restrictions: Not known

Manufacturer/Importer/Supplier/Distributor information

Company name: Shenzhen Sunrise New Energy CO., Ltd.

Address: Rm. 509-514, 516, 5F, HaloPlaza Phase 1, No. 8 Liyuan Road, Sungang, Luohu District, Shenzhen, China

Telephone: +86-0755-86922999

Website: www.7cfindustries.com

E-mail: international@szsunrisene.com

Emergency phone number: +86-0755-86922818

2. Hazards Identification

Physical hazards	Flammable aerosols	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Aspiration hazard	Category 5
Environmental hazards	Acute hazards to the aquatic environment.	
OSHA defined hazards	Not classified.	

Label elements

Signal word Danger

Hazard statement Flammable aerosol. Harmful if swallowed. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

Precautionary state

General Keep away from children.

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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection.

Response

If swallowed: Rinse	mouth with water. Do NOT induce vomiting. If on skin: Wash off immediately with plenty of water. If skin irritation or rash occurs: Call a physician. Do not rub affected area. Take off contaminated clothing and wash before reuse. If inhaled: Supply fresh air; Call a physician if symptoms Inhalation develop or persist. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Protect unharmed eye. If eye irritation persists: Get medical attention.
Storage	Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.

3. Composition/information on ingredients

Chemical name	CAS #	Weight Percent
Water	7732-18-5	45~80
Sodium dodecyl benzene sulfonate	25155-30-0	1~5
Propan-2-ol	67-63-0	5~10
2-butoxyethanol	111-76-2	5~10
Liquefied petroleum gas	68476-86-8	10~15

Note: The exact percentages are a trade secret.

4. First Aid Measures

General Advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Ingestion (Swallowed)	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Inhalation (Breathing)	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protecting of First-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

5. Fire Fighting Measures

Extinguishing Media

Suitable Extinguishing Media Dry chemical, carbon dioxide or water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter or spread fire.

Specific Hazards Arising from the Substance or Mixture

1. Flammable: will be easily ignited by heat, sparks or flames.
2. Will form explosive mixtures with air.
3. Fire exposed containers may vent contents through pressure relief valves thereby increasing fireintensity and/ or vapor concentration.
4. Vapors may travel to source of ignition and flash back.
5. Containers may explode when heated.
6. Fire exposed containers may vent contents through pressure relief valves.
7. May expansion or decompose explosively when heated or involved in fire.

Advice for Firefighters

1. As in any fire, wear self-contained breathing apparatus （MSHA/NIOSH approved or equivalent)and full protective gear.
2. Fight fire from a safe distance, with adequate cover.
3. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

1. Avoid breathing vapors and contacting with skin and eye.
2. Beware of vapors accumulating to form explosive concentrations.
3. Vapors can accumulate in low areas.
4. Emergency personnel wear positive pressure self-contained breathing apparatus. Wear protective and anti-static clothing. Wear chemical impermeable gloves.
5. Ensure adequate ventilation. Remove all sources of ignition.
6. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
7. Use personal protective equipment. Avoid breathing vapors, mist, gas or dust.

Environmental Precautions

1 Prevent further leakage or spillage if safe to do so.

2 Discharge into the environment must be avoided.

Methods and Materials for Containment and Cleaning Up

1. Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
2. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

3 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

Precautions for Handling

Protective Measures

1. Handling is performed in a well ventilated place.
2. Wear suitable protective equipment.
3. Avoid contact with skin and eyes.

Measures to Prevent Fire

1. Use only non-sparking tools.
2. To prevent fire caused by electrostatic discharge steam, equipment on all metal parts should be grounded.
3. Use explosion proof equipment.
4. Take precautionary measures against static discharges.
5. Keep away from heat/sparks/open flames/ hot surfaces.

Measures to Prevent Aerosol and Dust Generation

1. Not applicable.

Advice on General Occupational Hygiene

1. Wash hands and face after using of the substances.
2. Replace the contaminated clothing immediately.

> Precautions for Storage

1. Keep containers tightly closed.
2. Keep containers in a dry, cool and well-ventilated place.
3. Keep away from heat/sparks/open flames/ hot surfaces.
4. Store away from incompatible materials and foodstuff containers.

Specific End Use(s)

1. In addition to use mentioned in the first parts, unforeseen other specific end uses.

8. Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Water	No data available
Sodium dodecyl benzene sulfonate	No data available
Propan-2-ol	500 mg/m3
2-butoxyethanol	98 mg/m3
Liquefied petroleum gas	No data available

Predicted No Effect Concentration（PNEC）

No information available

Engineering Controls

1. Ensure adequate ventilation, especially in confined areas.
2. Ensure that eyewash stations and safety showers are close to the workstation location.
3. Use explosion-proof electrical/ventilating/lighting/equipment.
4. Set up emergency exit and necessary risk-elimination area.

Personal Protection Equipment

Eye Protection	Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).
Hand Protection	Wear protective gloves（such as butyl rubber）, passing the tests according to EN 374(EU),US F739 or AS/NZS 2161.1 standard.
Respiratory protection	If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Skin and Body Protection	Wear fire/flame resistant/retardant clothing and antistatic boots.

9. Physical and Chemical Properties

Appearance:	Fine foam	Flammable Limits: (Solvent Portion)	No data available
Flash point	>93.3°C	boiling point	> 80°C
Odor	Solvent	Solubility (water)	Mixable
Physical state	liquid	Form	Fine foam
Vapor density	Not available	Vapor pressure	Not available
Propellant	Hydrocarbon	PH	7.0-9.0
Specific gravity	0.85-1.0	Percent volatile	80 % estimated

10. Stability and Reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with halides may cause an active reaction. In contact with oxidants causes severe reactions, and may cause a fire or explosion.
Conditions to Avoid	Incompatible materials, heat, flame and spark.
Incompatible Materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Halides, oxidants and halogen. Oxidants, alkali metals, alkaline earth metals and aluminum.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Symptoms of Over exposure Inhalation	Prolonged inhalation may be harmful.
Skin Contact	Based on available data, the classification criteria are not met.
Eye Contact	Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Chronic Effects	Prolonged inhalation may be harmful.
Carcinogen Status	

None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity None of the components is considered a reproductive hazard.

12. Ecological Information

Acute Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Sodium dodecyl benzene sulfonate	25155-30-0	LC50：4.84mg/L(96h)(Fish)	EC50：6.84mg/L (48h)	ErC50：70.3mg/L (96h)
Propan-2-ol	67-63-0	LC50：9640mg/L(96h)(Fish)	EC50：>1000mg/L (48h)	ErC50：>1000mg/L (72h)
2-butoxyethanol	111-76-2	LC50：1370mg/L(96h)(Fish)	EC50：>1000mg/L (48h)	ErC50：>1000mg/L (72h)
Toluene	108-88-3	LC50：25mg/L (96h)(Fish)	EC50：4.1mg/L (48h)	ErC50：29mg/L (72h)

Chronic Aquatic Toxicity

Component	CAS No.	Fish	Crustaceans	Algae
Propan-2-ol	67-63-0	No information available	NOEC：>100mg/L	NOEC：1000mg/L
2-butoxyethanol	111-76-2	No information available	NOEC：>100mg/L	NOEC：130mg/L
Toluene	108-88-3	No information available	NOEC：1.2mg/L	NOEC：9.1mg/L

Others

Persistence and Degradability No information available

Bioaccumulative Potential No information available

Mobility in Soil No information available

Results of PBT and vPvB Assessment vPvB according to Regulation (EC) No 1907/2006, annex XIII.
Propan-2-ol does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Water does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII. 2-butoxyethanol does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

Toluene does not meet the criteria for PBT and Liquefied petroleum gas does not meet the criteria for PBT and vPvB according to

Regulation (EC) No 1907/2006, annex XIII.	Sodium dodecylbenzenesulfonate does not meet the criteria for PBT and vPvB according to Regulation (EC) No 1907/2006, annex XIII.

13. Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001).

However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty.

Dispose in accordance with federal, state, and local regulations.

14. Transportation Information

DOTG:

LIMITED QUANTITY

DOTW:

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY

IATA:

UN 1950, AEROSOLS, 2.1

IMO:

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY

15. Regulatory information

US Federal regulations: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

International regulations: No additional information available.

16. Other Information:

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

Revision Date:

Supersedes:

Revision Summary:

Prepared by:

Reviewed By: