FUKKOL

SAFETY DATA SHEET

According to GHS (Globally Harmonized System) Standard

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name	**Food Grade Silicone Lubricant Spray** (Chain & Conveyor Bearing)
Product Code(s)	I11632CCL-500ML / I11632CCL-4L / I11632CCL-18L
Recommended Use	Industrial Food Grade Lubricant Spray for Conveyors, Bearings, and Chains.
Company Name	**Kalen Fine Chemical Thailand Ltd**
Address	159/59 Moo 5 Phanthai Norasing, Mueang Samutsakhon, Thailand 74000
Telephone Contact	+66 034181129
Emergency Telephone	**+66 0614641794**

SECTION 2: HAZARDS IDENTIFICATION

Signal Word: DANGER

Hazard Statements:

- H222: Extremely flammable aerosol (Aerosol format).
- H229: Pressurized container: May burst if heated.
- H316: Causes mild skin irritation.
- H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

- **Prevention (P210/P211/P251):** Keep away from heat, hot surfaces, sparks, open flames. Do not spray on open flame. Do not pierce or burn, even after use.
- **Response (P332+P313):** If skin irritation occurs: Get medical advice/attention.
- **Storage (P410+P412):** Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
- **Disposal (P501):** Dispose of contents/container in accordance with local/regional regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name / Component	CAS No.	Weight %	Classification
Dimethyl Polysiloxane (Synthetic Silicone Oil)	63148-62-9	40% – 60%	Not Classified (Food Grade)
Liquefied Petroleum Gas (Propellant - 500ml only)	68476-85-7	30% – 45%	Flam. Gas 1 (H220), Press. Gas
Food Grade Isoparrenic Solvent	64742-47-8	10% – 20%	Asp. Tox. 1 (H304), Flam. Liq. 3

SECTION 4: FIRST AID MEASURES

- **Inhalation:** Move subject to fresh air. If breathing is difficult, give oxygen and seek medical attention immediately.
- **Skin Contact:** Wash affected area with soap and plenty of water. Remove contaminated clothing if necessary.
- **Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Seek medical help if irritation persists.
- **Ingestion:** Do not induce vomiting without medical advice. Rinse mouth with water. Seek medical advice immediately.

SECTION 5: FIREFIGHTING MEASURES

- **Suitable Extinguishing Media:** Carbon dioxide (CO_2), dry chemical powder, foam, or water fog.
- **Unsuitable Extinguishing Media:** Direct high-pressure water jet.
- **Specific Hazards:** Pressurized cans may explode when exposed to extreme heat or flame. Thermal decomposition produces oxides of carbon and silicon.
- **Protective Equipment:** Firefighters must wear full protective gear and self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Eliminate all ignition sources. Ensure adequate ventilation. Avoid skin and eye contact.
- **Environmental Precautions:** Prevent material from entering drains, surface water, groundwater, or soil.
- **Clean-up Methods:** Absorb liquid spillage with inert absorbent material (e.g. sand, silica gel, sawdust). Collect and dispose in closed containers.

SECTION 7: HANDLING AND STORAGE

- **Handling:** Keep away from heat, sparks, and open flame. Use in well-ventilated areas. Wash thoroughly after handling.
- **Storage:** Store in a cool, dry, well-ventilated location below 50°C. Keep away from direct sunlight, open flames, and incompatible materials (strong oxidizers).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Occupational Exposure Limits:** LPG TWA: 1000 ppm; Oil Mist: TWA 5 mg/m³.
- **Engineering Controls:** Provide mechanical exhaust ventilation to control airborne concentrations below recommended exposure limits.
- **Personal Protective Equipment (PPE):**
  - **Eye/Face:** Wear safety glasses with side shields or chemical goggles.
  - **Skin/Body:** Wear oil-resistant nitrile or neoprene gloves and standard protective work garments.
  - **Respiratory:** In case of inadequate ventilation or spray mist formation, wear appropriate organic vapor respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid / aerosol mist	**Odor:** Odorless / Slight solvent odor
pH: Not applicable	**Boiling Point:** > 150°C (Base Liquid)
Flash Point: < -40°C (Propellant) / > 300°C (Base Oil)	**Density (20°C):** 0.68 – 0.80 g/cm³
Solubility in Water: Insoluble	**Auto-ignition Temp:** > 350°C

SECTION 10: STABILITY AND REACTIVITY

- **Chemical Stability:** Stable under normal ambient handling and storage temperature conditions.
- **Possibility of Hazardous Reactions:** No dangerous reactions known under normal conditions of use.
- **Conditions to Avoid:** High heat, flames, sparks, static discharge, direct sunlight, and temperatures > 50°C.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, halogenated compounds.
- **Hazardous Decomposition Products:** Carbon monoxide (CO), carbon dioxide (CO_2), silicon dioxide (SiO_2).

SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Toxicity:** Oral LD_{50} (rat) > 5000 mg/kg; Dermal LD_{50} (rabbit) > 2000 mg/kg.
- **Skin Corrosion/Irritation:** Prolonged or repeated exposure may cause mild skin dryness or irritation.
- **Serious Eye Damage/Irritation:** May cause temporary mild eye redness/discomfort upon direct contact.
- **Carcinogenicity:** None of the components present in this product are listed as carcinogens by IARC, NTP, or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Low aquatic toxicity under normal application. High concentration spillage may be harmful to aquatic life.
- **Persistence and Degradability:** Silicone fluids are persistent in environment but inert and non-bioaccumulative.
- **Bioaccumulative Potential:** Low potential for bioaccumulation.

SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Treatment:** Do not puncture or incinerate container. Dispose of waste in accordance with local, state, and national environmental regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Mode	UN Number	Proper Shipping Name	Hazard Class	Packing Group

ADR/RID (Road)	UN1950	AEROSOLS, flammable	2.1	N/A
IMDG (Sea)	UN1950	AEROSOLS	2.1	N/A
IATA (Air)	UN1950	AEROSOLS, flammable	2.1	N/A

SECTION 15: REGULATORY INFORMATION

- **Safety, Health & Environmental Regulations:** Complies with Thailand Hazardous Substance Act and GHS Classification guidelines.
- **Food Contact Compliance:** Base fluids comply with NSF H1 guidelines for incidental food contact applications.

SECTION 16: OTHER INFORMATION

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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. Kalen Fine Chemical Thailand Ltd assumes no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.