

# Safety Data Sheet

## SECTION 1: PRODUCT AND COMPANY INFORMATION

Distributor Tifco Industries, Inc. PO  
PO Box 40277  
Houston, TX 77240  
Phone: 281-571-6000

Chemical Family Soy Methyl Ester  
Trade Name Super Kleen  
Chemical Number 9759  
Recommended Uses Concentrate formulated to be diluted with water  
for degreasing, steam cleaning, and power washing  
of paving and industrial equipment.

**24-Hour Emergency  
Phone Chem-Tel  
1-800-255-3924**

## SECTION 2: HAZARD IDENTIFICATION

**Classification:** Not classified as hazardous according to 29 CFR 1910.1200 (2012)

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Component	CAS Numbers	Percentage
Fatty Acid Methyl Esters	67784-80-9	60-95
Citrus Terpenes	94266-47-4	0-5
Surfactant Blend	Mixture	0-5

## SECTION 4: FIRST AID MEASURES

**Eye Contact:** If in eyes: Flush eyes with water for 15 to 20 minutes lifting upper and lower lids occasionally. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Skin Contact:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Inhalation:** Negligible unless heated to produce vapors. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea. No specific first aid measures are required. If exposed to excessive levels of material in the air, Move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

**Ingestion:** No hazards anticipated from ingestion incidental to industrial exposure. Do not induce vomiting unless recommended by physician. If spontaneous vomiting occurs, keep head below hips to avoid aspiration (into lungs). SPECIAL NOTE TO PHYSICIAN: In general, fatty methyl ester based products have a low oral toxicity.

**Delayed or Other Symptoms and Health Effects:** Not Classified.

## SECTION 5: FIREFIGHTING MEASURES

**Basic Firefighting Procedures:** Extinguishing Media: Dry chemical, foam, halon (may not be permissible in some countries), CO<sub>2</sub>, water spray (fog). Water stream may splash the burning liquid and spread fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full-face mask and full protective equipment

**Special Firefighting Procedures:** Use water spray to cool drums exposed to fire.

**Unusual Fire and Explosion Hazards:** Biodiesel soaked rags or spill absorbents (i.e. oil dry, polypropylene socks, sand, etc.) can cause spontaneous combustion if stored near combustibles and not handled properly. Store biodiesel soaked rags or spill absorbents in approved safety containers and dispose of properly. Oil soaked rags may be washed with soap and water and allowed to dry in well ventilated area.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Refer to Section 8: Exposure Control and Personal Protection

**Protective Measures:** Eliminate all sources of ignition in vicinity of spilled material and contain spill to smallest area possible. Stop leak if possible.

**Spill Management:** Pick up small spills with absorbent materials and dispose of properly to avoid spontaneous combustion (see unusual fire and explosion hazards above). Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

**Notification:** Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

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## SECTION 7: HANDLING AND STORAGE

### Refer to Section 8: Exposure Control and Personal Protection

**Precautionary Measures:** Keep away from intense heat, sparks or flame. Avoid contact with eyes, skin, clothing or shoes. Use in well-ventilated area and avoid breathing vapor or mist.

**General Handling Information:** Store in closed containers between 50°F and 120°F. Keep away from oxidizing agents, excessive heat, and ignition sources.

Store and use in well ventilated areas. Do not store or use near heat, spark, or flame, store out of sun. Do not puncture, drag, or slide this container. Drum is not a pressure vessel; never use pressure to empty.

**Container Warnings:** Keep container tightly closed when not in use and during transport. Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

## SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

**Exposure Guidelines:** Not established for components.

**Engineering Controls:** Provide process enclosure or local ventilation needed to maintain concentration of vapor or mist below applicable exposure limits.

**Eye and Face Protection:** Wear protective eyewear. Do NOT wear contact lenses. Use face shield if splashing is possible.

**Skin Protection:** Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

**Respiratory Protection:** Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment is required for fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134 or in Canada with CSA Standard Z94.4-M1982.

**Other Protective Equipment/ General Hygiene Considerations:** Have eyewash facilities immediately available. Where spills and splashes are possible, wear appropriate oil-resistant boots, apron or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin. Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance/Physical State</b>	Pale Yellow Liquid	<b>Auto Ignition Temperature</b>	Not Determined
<b>Specific Gravity</b>	0.88 lb. per gallon	<b>Decomposition Temperature</b>	Not Determined
<b>pH</b>	Not Determined	<b>Vapor Pressure (mm Hg)</b>	<2
<b>Solubility in Water</b>	Forms emulsion.	<b>Vapor Density (Air=1)</b>	>1
<b>Odor</b>	Light Citrus	<b>Partition Coefficient</b>	Not Determined
<b>Odor Threshold</b>	Not Determined	<b>Viscosity</b>	Not Determined
<b>Melting/Freezing Point</b>	Not Determined	<b>Critical Temperature</b>	Not Determined
<b>Boiling Range</b>	Not Determined	<b>Other Information:</b>	
<b>Initial BP (760 mmHg)</b>	>500°F/>260°C	<b>Volatiles (% by Vol.)</b>	<2
<b>Flash Point (ASTM 93)</b>	201°F/93.9°C	<b>Evaporation Rate (Butyl acetate= 1):</b>	<1
<b>Upper/Lower Flammability Limits</b>	Not Determined		

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Material is stable under normal conditions.

**Stability/Incompatibility/ Conditions to Avoid:** Strong oxidizing agents, strong bases, and strong acids, including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride.

**Hazardous Reactions/Decomposition Products:** If product is hydrolyzed, methanol will be formed / Material does not decompose at ambient temperatures.

**Hazardous Polymerization:** Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Component Acute Effects:** Fatty Acid Methyl Esters have been shown to have low oral toxicity (LD>5 g/kg) when tested on rats and low dermal toxicity 50 (LD> 2g/kg) when tested on rabbits.

**Likely Routes of Exposure:** Eyes and skin contact; inhalation of incidental mists or vapors; ingestion.

**Acute Effects:** Eyes: Contact may produce mild eye irritation and redness. Skin: Contact may produce mild skin irritation. No significant skin absorption hazard Inhalation (Breathing): High concentration of vapor or mist may be irritating to the respiratory tract. Ingestion (Swallowing): Low order of acute oral toxicity. May cause irritation of gastrointestinal tract, nausea and vomiting. Aspiration into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

**Chronic Effects:** Prolonged or repeated skin contact may cause drying or dermatitis. Any acute symptoms may be aggravated. Individuals with pre-existing lung or disorders may have increased susceptibility to the effects of exposure.

**Symptoms:** May include redness, drying, cracking of the skin, gastrointestinal and respiratory discomfort. Refer to Sections 2 and 4 for recommended actions.

**Carcinogenicity:** No components of this product are found to be carcinogens by NTP, IARC or OSHA.

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### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** Component Aquatic Toxicity: Fatty Acid Methyl Esters The 96-hour LC50 for biodiesel alone in bluegill fish is > 1000 mg/L. The 96-hour LC50 for biodiesel alone in rainbow trout fingerlings ranges from 390-707 mg/L. The 96-hour LC50 for biodiesel alone in rainbow trout fry is 455 mg/L. The 24-hour LC50 for biodiesel alone in Daphnia magna (water flea) juveniles is 4.65 mg/L.

**Persistence and Biodegradability:** Biodegradation: Fatty Acid Methyl Ester Component -- Expected to be inherently biodegradable.

**Bioaccumulative Potential:** Fatty Acid Methyl Ester Component - No appreciable bioconcentration is expected in the environment. If released to soil and water, this product is expected to be readily biodegradable under aerobic conditions.

**Mobility in Soil:** Not Determined.

### SECTION 13: DISPOSAL CONSIDERATION

Use material for its intended purpose or recycle if possible. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

### SECTION 14: TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** Not regulated

**DOT CLASS:** Not regulated (Not Hazardous)

**DOT ID NUMBER:** Not regulated

**PACKING GROUP:** None

**TDG Status:** Not Hazardous

**IMO Status:** Not Hazardous

**IATA Status:** Not Hazardous

### SECTION 15: REGULATORY INFORMATION

**SARA TITLE III:** Product does not contain toxic chemicals subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372

**EPCRA 311/312 CATEGORIES:** 1. Immediate (Acute) Health Effects: NO 2. Delayed (Chronic) Health Effects: NO 3. Fire Hazard: NO

4. Sudden Release of Pressure Hazard: NO 5. Reactivity Hazard: NO

**CHEMICAL INVENTORIES:** All components comply with the following chemical inventory requirements: DSL (Canada), TSCA (United States).

**NFPA 704: National Fire Protection Association:** Health – 1 Fire – 1 Reactivity – 0

**State Right to Know / Cal. Prop. 65:** California Safe Drinking Water and Toxic Enforcement Act of 1986 this product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition. Fatty Acid, Methyl Ester: Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: Not Listed. Pennsylvania Right-To-Know: Not Listed. Massachusetts Right-To Know: Not Listed. Florida Substance List: Not Listed. Rhode Island Right-To-Know: Not Listed. Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. Pennsylvania RTK - Special Hazardous Substances: Not Listed. New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Substances List: Not Listed. Illinois - Toxic Air Contaminants Not Listed. New York - Reporting of Releases Part 597 -List of Hazardous Substances: Not Listed.

**Canadian Regulatory Information:** Canada DSL/NDL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL) or are exempt.

### SECTION 16: OTHER INFORMATION

**Disclaimer:** The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.

This SDS complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200