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LSB-3.5MSDS-FG-100-01

SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: FG-100-LS

Product Code: FG-100-LS

Product Type: Food Grade Aluminum Complex Grease

Product Use: Lubrication

Uses advised against: No information available

Manufacturer/Supplier:

Lone Star Blower, Inc.

1100 Louisiana Street, South Houston, TX 77587

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SECTION 2 – HAZARDS IDENTIFICATION

Classification of the substance of mixture

OSHA Hazard Communication Standard: This material is not considered hazardous in accordance with OSHA HAZCOM 2012, 29 CFR 1910. 1200

GHS Label Element: This product contains no substance which at their given concentration are considered to be hazardous to health

Signal Word: None

Appearance: White

Physical State: Semi-Solid

Odor: Slight Petroleum

Precautionary Statements

Prevention: None

General Advice: None

Storage: None

Disposal: None

Hazard not otherwise classified (HNOC): Not applicable.

Other Information: 22.64 % of the mixture consists of ingredient(s) with unknown toxicity



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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

Food Grade Aluminum Complex Grease

Chemical Name	CAS #	Weight %	Trade Secret
White Mineral oil (petroleum)	8042-47-5	50-85	*
Calcium Carbonate	471-34-1	≤ 10	*
Titanium Di-oxide	13463-67-7	≤ 3	*

**The exact percentage of ingredients are withheld as trade secret*

Additional information:

As per 29 CFR 1910.1200 paragraph (i), formulation is considered as trade secret and therefore specific chemical names and their percentages of components used have not been disclosed. The details about their specific chemical names and their percentages may be provided on request to health professionals, authorized representatives of regulatory authority, employees concerned in accordance with applicable provisions of this paragraph.



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SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General information: Not expected to be a health hazard if used under normal conditions

Inhalation: Under normal conditions of intended use, this material is not expected to be inhalation hazard. If some symptoms exist, remove to fresh air. If not breathing, give artificial respiration. Get medical attention

Skin Contact: Remove contaminated clothes. Flush exposed area with plenty of water followed by washing by soap, if available. If persistent irritation occurs, obtain medical attention. If product is injected into or under the skin due to any reason, the victim, regardless of size or appearance of wound, victim should be brought immediately to medical attention for emergency surgical needs. Though the initial symptoms due to high pressure injection may be minimal / absent, early surgical treatment may significantly reduce the extent of injury.

Eye Contact: Immediately flush with large quantities of cool water for at least 15 minutes including under eyelids. Keep eye wide open while rinsing. If symptoms persist, get medical attention.

Ingestion: Drink plenty of water. In general, no treatment is necessary unless large quantities are swallowed, however, it's advisable to take medical attention. Do not induce vomiting unless directed by medical personnel. Do not give anything by mouth by an unconscious person.

Most Important Symptoms /Effects Acute and Delayed: No information available

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:

Note to Physician: Treat symptomatically

Self-Protection for First Aider: When administering the first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.



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SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media: Water Spray (fog), dry chemical, foam, or carbon dioxide, sand to extinguish flames.

Unsuitable extinguishing media: Water stream may splash burning liquid and spread fire.

Special hazard arising from the substances or mixture: Hazardous combustion product may include a complex mixture of airborne solid and liquid particulates and gases (smoke), carbon monoxide, unidentified inorganic and organic compounds.

Explosion Data:

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

Advice to firefighters: Proper protective equipment include chemical resistant gloves to be worn, chemical resistant suit is recommended when large contact with spill product is expected. Self-contained breathing apparatus (SCBA) must be worn when approaching a fire in confined area. Select the fire fighters clothing approved by relevant standard e.g., MSHA/NIOSH approved or equivalent and full protective gear.



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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch and walk through spill area. Do not touch damaged container or spilled material unless wearing appropriate protective clothing/equipment. Ventilate the closed area.

Emergency procedures: Isolate the spill / leak area in all directions for about 50 meters (150 ft) for liquids and about 25 meters (75 ft.) for solids and semi-solids. Eliminate all ignition sources (no smoking, flares, sparks / flames in close vicinity). Keep unauthorized person away and ventilate closed space before entering.

Environmental procedures: Use appropriate measures for containment of spilled material to the environment. Prevent from entering/ spreading to drain, water, river, ditches by using sand, earth, floor dryers or other appropriate barriers.

Methods and materials for containment and cleaning up: Shovel into suitable properly marked container for disposal or reclamation in accordance with local regulations.

Reference to other sections: Refer to section 8 – exposure control / personal protection and section 13- disposal considerations



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SECTION 7 – HANDLING AND STORAGE

General Precautions: Store in well-ventilated area, if risk on vapor inhalation is there. Use the information in this data sheet as input for risk management arising due to local conditions which help to manage safe handling of this product.

Precautions for safe handling: Avoid prolonged and repeated contact with skin. Avoid inhaling the vapors/mist. When handling the drums, kegs, pails etc., proper safety shoes, and other protective clothes, safety glasses etc. should be worn. Dispose appropriately any contaminated rags/material as per prevailing local allowable practices. Keep containers in closely tight and, cool and well ventilated areas.

Conditions for safe storage, including any incompatibilities: Keep containers tightly close, well-ventilated areas but covered, avoiding contact with rain or other water ingress possibilities. Keep the storage place cool preferably $<120^{\circ}\text{F}$ / $<50^{\circ}\text{C}$. Higher temperature may create pressure buildup inside container and chances of container busting or leakage may occur under aggravated conditions. Keep away from other oxidizing and incompatible materials.

Incompatible Products: Strong oxidizing agents. Strong reducing agents.



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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
White Mineral Oil	TWA:5 mg/m ³	TWA: 5 mg/m ³ as oil	-
Calcium Carbonate (CAS # 471-34-1)	-	TWA: 15 mg/m ³ (Vacated) TWA:15 mg/m ³	TWA:10 mg/m ³ total dust TWA:5 mg/m ³ respirable dust
Titanium Di-oxide (CAS # 13463-67-7)	TWA:10 mg/m ³	TWA : 15 mg/m ³ total dust; (vacated) TWA:10 mg/m ³ total dust	IDLH:5000 mg/m ³

Immediate dangerous to life or health . ACGIH TLV : American Conference of Government Industrial Hygienists – Threshold Limit Values . OSHA PEL : Occupational Safety and Health Administration – Permissible Limits .

Other Exposure Guidelines: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F. 2d 962. (11th Cir., 1992).

Appropriate Engineering Controls

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Individual protection measures, such as personal protective equipment:

Eye/Face Protection: Safety glasses with side-shields. Risk of contact, wear: Chemical splash goggles.

Skin and Body Protection: Impervious clothing. Protective gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.



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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on physical and chemical properties

Material description

Appearance	: Semi-solid
Color	: White
Odor	: Slight hydrocarbon
Odor threshold	: Data not available

General properties

Boiling point	: No data available
pH	: Not applicable
Specific gravity (15 °C)	: 0.87, 7.506 (lbs/gal)
Flash point, COC, °F/°C	: 257 / 495
Upper/lower flammability limits	: No data available
Auto-ignition temperature	: No data available
Flammability	: No data available
VOC, % wt., ASTM D-972	: < 1%
Vapor pressure @ ambient temp.	: < 0.13 kPa (< 1 mm Hg)
Vapor density (air =1)	: < 1
Explosive properties	: No data available
Oxidizing properties	: No data available

Other Information

Electrical conductivity	: Though no data available, this material is not expected to be a static accumulator
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SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No reactivity is expected under normal conditions of intended use. However, under high temperature or adverse operating conditions thermal / chemical decomposition of the product may be possible.

Chemical Stability: No hazardous reaction is expected under normal conditions of temperature and pressure

Possibility of Hazardous Reactions: None under normal processing

Hazardous Polymerization: Not likely to occur

Conditions to Avoid: Extreme temperature and direct sunlight / heat / flame

Incompatible Materials: Strong oxidizing agents or strong reducing agents

Hazardous Decomposition Products: Carbon dioxides, Nitrogen oxides (NOX), Sulfur oxides



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SECTION 11 – TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation: There is no data available for this product.

Eye Contact: Contact with eyes may cause irritation.

Skin Contact: There is no data available for this product

Ingestion: There is no data available for this product

Chemical Name	LD 50 Oral	LD 50 Dermal	LC 50 Inhalation
Calcium Carbonate (CAS # 471-34-1)	6450 mg/kg ; rat	-	-
Titanium Di-oxide (CAS # 13463-67-7)	>10000 mg/kg ; rat	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen. The classification listed below for the white mineral oil in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

Carcinogenicity: Not classified as human carcinogen. **Mutagenicity:** Animal testing did not show any mutagenic effects **Teratogenicity:** Not available

Reproductive Toxicity: No toxicity to reproduction

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium Di-oxide (CAS # 13463-67-7)	-	Group 2 B	-	-



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IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Reproductive Toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration Hazard: No information available

Numerical measures of toxicity – Product:

Acute Toxicity: 22.64 % of the mixture consists of ingredient(s) of unknown toxicity.



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SECTION 12 – ECOLOGICAL INFORMATION

Eco-toxicity: The environmental impact of this product has not been fully investigated.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available

SECTION 13 – DISPOSAL INFORMATION

Waste Treatment Methods

Product Disposal: Try to minimize the product waste by using best applicable practices. It is the responsibility of the waste generator to evaluate the waste classification and appropriate disposal methodology in accordance with the applicable regulation. Do not dispose in to environment, in drain or in river / ponds / water reservoirs.

Container Disposal: To be disposed in accordance with local prevailing and allowable regulations.

SECTION 14 – TRANSPORTATION INFORMATION

	Bulk shipping	Non-bulk shipping	Identification #	Hazardous class
US DOT	Not required	Not required	Not required	Not required
Canadian TDG	Not required	Not required	Not required	Not required
European	Not required	Not required	Not required	Not required
ADR, IMDG, IATA-DGR	Not classified as hazardous product for land, sea and air transport			



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SECTION 15 – REGULATORY INFORMATION

Legend

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory

DSL/ NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

OSHA Hazard Communication Standard: This material is not considered hazardous in accordance with OSHA HAzCom 2012, 29 CFR 1910.1200.

U.S. Federal Regulations Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Water Act: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). However, there may possibly be specific reporting requirements at the county , regional, or state level related to releases of this material.



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U.S. State Regulations:

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS #	Cal 65
Titanium Dioxide	13463-67-7	Carcinogen
Quartz	14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list

Chemical Name	New Jersey	Pennsylvania	Massachusetts	Illinois	Rhode Island
Quartz	X	X	X		X
Calcium Carbonate	X		X		X
Titanium Di-oxide		X	X		X



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U.S. EPA Label Information:

EPA Pesticide Registration Number: Not applicable

International Inventories:

WHMIS: This product is not a controlled product.

Canadian NPRI: none of the components are listed

CEPA toxic substance: none of the components are listed

Europe (EINECS/ELINCS/NLP): All components are listed or exempted from EU listing requirements

Australia Inventory (AICS): All components are listed or exempted **China Inventory (IECSC) :** All components are listed or exempted

Japan Inventory: All components are listed or exempted

Korea Inventory: All components are listed or exempted

Malaysia Inventory (EHS Register): Not determined

New Zealand inventory of Chemicals (NZIoC): All components are listed or exempted

Philippines Inventory (PICCS): All components are listed or exempted



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SECTION 16 – OTHER INFORMATION

	NFPA	HMIS	KEY
Health	1	1	0 = Minimal
Fire	1	1	1 = slight
Reactivity	0	0	2 = Moderate
Specific	None	N/A	3 = Serious

This safety data sheet contains the following revisions:

Revision Date: August 21, 2017

Supersedes: January 24, 2016

Prepared by: Riverside Laboratories

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