



**BIOBLEND™**  
**SUSTAINABLE PERFORMANCE**  
**SAFETY DATA SHEET**

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## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product identifier**

Product Name: TruGrease FG ALC 0, 1, 2

**Other means of identification**

**Synonyms**

No information available.

**Application**

**Recommended Use**

Lubricating Grease

**Uses advised against**

For industrial use only

**Supplier/Manufacturer:**

**Supplier:**

BioBlend Renewable  
Resources 1500 Jarvis Ave.  
Elk Grove Village, IL 60007

**Emergency telephone number:**

(630) 227-1800  
Monday through  
Friday 8 AM - 4 PM

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is not classified under the Globally Harmonized System

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Label Elements**

**Emergency Overview**

APPEARANCE: WHITE

PHYSICAL STATE: GREASE

ODOR: MILD

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

None known.

**Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No.	Weight %
Titanium dioxide	13463-67-7	<1%
White Mineral Oil	8042-46-5	80-90%

The remaining percentage (concentration) of composition has been withheld as a trade secret and has no required hazard classification.

### 4. FIRST AID MEASURES

<b>General advice:</b>	Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Skin contact:</b>	Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.
<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician if necessary. Consult a physician.
<b>Note to physician:</b>	Treat symptomatically.
<b>Medical condition aggravated by exposure:</b>	Dermatitis.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or `alcohol` foam.
<b>Specific hazards:</b>	Do not allow material to contaminate ground watersystem.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Water mist may be used to cool closed containers.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Do not breathe vapor/dust. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling
<b>Environmental precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

<b>Technical measures/precautions:</b>	Provide sufficient air exchange and/or exhaust in work rooms.
<b>Safe handling advice:</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

### Storage

<b>Technical measures/storage conditions:</b>	Store at room temperature in the original container
<b>Incompatible products:</b>	Strong oxidizing agents
<b>Safe storage temperature:</b>	5 - 35 °C
<b>Shelflife:</b>	2 years

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
White mineral oil	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> (TWA)
Thickening Agent	1 mg/m <sup>3</sup> (TWA)	None	None
Calcium carbonate	None	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (TWA) 5 mg/m <sup>3</sup> (TWA)
Titanium dioxide	10 mg/m <sup>3</sup> (TWA)	15 mg/m <sup>3</sup>	None

**Engineering measures:** Ensure adequate ventilation.

### Personal Protective Equipment:

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Recommended: neoprene, latex, nitrile, butyl rubber and polyethylenetype

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Grease
<b>Appearance</b>	White
<b>Odor</b>	Mild
<b>Odor Threshold</b>	No information available.
<b>pH:</b>	Not applicable
<b>pH Dilution</b>	No information available
<b>Melting/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	249 °C / 480 °F
<b>Method</b>	Cleveland Open Cup (COC)
<b>Evaporation rate</b>	No information available
<b>Flammability Limits in Air</b>	
upper flammability limit	No information available.
lower flammability limit	No information available.
<b>VOC Content</b>	No information available
<b>Vapor pressure</b>	No information available.
<b>Vapor density</b>	No information available.
<b>Specific Gravity (g/cc, 15 C)</b>	0.91
<b>Bulk Density (lb/gal, 15 C)</b>	7.5
<b>Density @ 25 ° C. (g/cc):</b>	0.91

<b>Bulk Density @ 77° F. (lb/gal):</b>	7.5
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available.
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Molecular Weight</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	None known.
<b>Materials to avoid:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon oxides. Oxides of phosphorus. Sulphur oxides. Smoke.
<b>Hazardous Polymerization:</b>	Not applicable.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	10000 mg/kg ( Rat )	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	This product contains titanium dioxide which is classified as an IARC 2B carcinogen based on laboratory studies where animals were exposed to titanium dioxide dust. This is not a relevant route of exposure for this product since it is a moist solid material with little to no chance of producing dust
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Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Titanium dioxide	Group 2B (Possibly Carcinogenic to Humans)	Not listed	Present

<b>Sensitization</b>	No information available.
<b>Mutagenic effects:</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenic</b>	No information available.
<b>Specific target organ systemic toxicity (single exposure)</b>	No information available.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	No information available.
<b>Aspiration hazard</b>	No information available.

#### Additional information on toxicological effects

**MINERAL OIL INFORMATION:** Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5 mg/m<sup>3</sup> for worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m<sup>3</sup>. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

## 12. ECOLOGICAL INFORMATION

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Titanium dioxide	No data	No data	No data

0.4% of the mixture consists of component(s) of unknown hazards to the aquatic environment

<b>Persistence and Degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Components	Octanol/water partition coefficient
Titanium dioxide	-

<b>Mobility:</b>	No data available
<b>Ozone:</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:**

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:**

Do not re-use empty containers

**Methods for cleaning up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 14. TRANSPORT INFORMATION

### U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

### TDG (CANADA):

Proper shipping name: Not Regulated

### IMDG/IMO:

Proper shipping name: Not Regulated

### IATA/ICAO:

Proper shipping name: Not Regulated

## 15. REGULATORY INFORMATION

### Federal Regulations

**OSHA Hazard Communication Standard:**

This product is considered non-hazardous under the OSHA Hazard Communication Standard.

### CERCLA/SARA Information:

**SARA (311, 312) hazard class:** This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): No  
Delayed Health (Chronic): No  
Flammability: No  
Pressure: No  
Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Titanium dioxide	Not listed	Not listed	Not listed

**CERCLA/SARA 313 Emission reporting:**

This product contains no components subject to the reporting requirements of SARA 313.

### Clean Air and Clean Water Acts:

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
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Titanium dioxide	Not listed	Not listed	Not listed	Not listed
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**U.S. STATE REGULATIONS (RTK):**

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Titanium dioxide	carcinogen	Present	Not Listed	1861	Present

**California Proposition 65 Status:** Listed component present: titanium

dioxide RCRA Status: Not regulated \_\_\_\_\_

**CANADIAN REGULATIONS:**

**Canada - WHMIS Classification Information:** This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**Canadian Product Classification:** Not Regulated

**Product Classification Graphic(s):**

**Component Classification Data:**

Components	WHMIS hazard class	CEPA Schedule I	Challenge Substances
Titanium dioxide	D2A	Not listed	Not listed

**INVENTORY STATUS:**

**United States TSCA - Sect. 8(b) Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

**16. OTHER INFORMATION**

**Sources of key data used to compile Material safety data sheets of the ingredients. the data sheet:**

**Prepared by:** Safety, Health and Environmental Department

**Revision Date:** 05/01/2015

**Reason for revision:** New Format.

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.



**Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

**End of Safety Data Sheet**