



**RENEWABLE  
LUBRICANTS**

## FOOD GRADE LUBRICATION GUIDE



*CARSON*

---

**“ Food Grade Lubricants that improve workplace safety by eliminating petroleum and protecting our environment. ”**

---



Renewable Lubricants supplies food grade products for your entire manufacturing facility.



# Why Food Grade?

## **HIGH PERFORMANCE:**

Environmentally friendly products have a reputation of poor performance. This can make changing over from petroleum products a difficult decision. Renewable Lubricants products are patented technology with over 25 years in the market. From the factory to the race track, Renewable Lubricants has proven performance that makes the change easy and worry free.

## **ENVIRONMENTALLY FRIENDLY:**

Many food grade applications require environmentally friendly lubricants. Agriculture, Fishing and water utility departments are great examples as fines for environmental spills occur everywhere. Renewable Lubricants offers the only full line of Environmentally friendly food grade products that are EPA Vessel General Permit (VGP) compliant.

## **PETROLEUM FREE:**

Most food grade lubricants are made from a combination of petroleum products. These petroleum food grade products do not offer an option for MOSH (Mineral Oil Saturated Hydrocarbon) Free and are not the safest option. Renewable Lubricants offers petroleum free options that are safer for employees and customers.

## **SUSTAINABLE:**

Traditional Food Grade lubricants are not sustainable. Food Manufacturers and Farmers are not given the opportunity to support their own industry through bio-based food grade lubricants until now. RLI can help you meet your sustainability goals.

# HYDRAULIC FLUIDS

## **BIO-FOOD GRADE™ HYDRAULIC FLUID**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Replaces premium synthetic hydraulic fluids.  
High VI excellent oxidation fluids.  
High renewable content, MOSH compliant.  
NSF H1 Registered. Kosher Certified.

ISO Grade	15	22	32	46	68	100
Pour Point	-48°C	-44°C	-40°C	-38°C	-33°C	-31°C
Viscosity @40°C	15.6	21.1	33.7	45.0	67.9	98.4
Item#	87100	87110	87120	87130	87140	87150

## **HYDROSAFE FOOD GRADE™ HYDRAULIC FLUID**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Directly replaces petroleum hydraulic fluids.  
High renewable content, MOSH compliant.  
Great performance, affordable product.  
NSF H1 Certified. Kosher Certified.

ISO Grade	32	46	68	100	
Pour Point	-40°C	-38°C	-33°C	-31°C	
Viscosity @40°C	33.7	45.0	67.9	98.4	
Item#	77420	77430	77440	77450	



Hydraulic and Gear Oils are used in fishing boats to avoid harming waterways.

# GEAR OILS

## **BIO-FOOD GRADE™ GEAR OIL**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

- Readily Biodegradable/VGP approved.
- Full Synthetic.
- Soft Metal friendly.
- Can be used in worm gear applications.
- High renewable content, MOSH compliant.
- NSF H1 Registered. Kosher Certified.

ISO Grade	32	46	68	100	150	220	320	460	680
Pour Point	-40°C	-38°C	-33°C	-31°C	-27°C	-25°C	-22°C	-20°C	-18°C
Viscosity @40°C	31.6	45.0	65.4	97.9	142.0	212.5	306.8	442.5	640
Item#	87200	87210	87220	87230	87240	87250	87260	87270	87280

# FOR THE OVEN

## **BIO-EXTREME™ HT OVEN LUBRICANT**

*Agriculture, Marine, Food Processing Plants*

Readily Biodegradable/VGP approved.

Fortified with Synthetic White Graphite.

White Graphite lubricates at extreme high temperature over 1000°C.

Provides better extreme pressure and lubricity over black graphite, teflon and molybdenum disulfide.

Can be applied by automated lubrication systems or brushed on.

NSF H1 Certified. Kosher Certified.

ISO Grade	46	68	100	150	220
Pour Point	-28°C	-28°C	-25°C	-25°C	-25°C
Viscosity @40°C	45.5	67.5	96.0	147.1	219.0
Item#	81920	81850	81860	81870	81880

## **BIO-SYNXTRA™ HT OVEN LUBRICANT**

*Agriculture, Marine, Food Processing Plants*

Readily Biodegradable/VGP approved.

Helps clean and lubricate moving parts and chains.

Eliminates accumulation of hard carbon solids, extending equipment life.

Fully Synthetic designed for applications where air temperature often exceeds 260°C (500°F).

NSF H1 Certified. Kosher Certified.

ISO Grade	68	100	150	220	
Pour Point	-48°C	-45°C	-43°C	-40°C	
Viscosity @40°C	64.0	99.0	137.0	205	
Item#	81810	81820	81830	81840	

# CLEANERS

## **BIO-PARTS CLEANER/DEGREASER™ FG (SOY BASED)**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-12°C
Item#	86630

Readily Biodegradable/VGP approved.  
Oil Based Cleaner (NOT WATER SOLUBLE)  
Safe replacement for mineral spirits and solid Stoddard solvents.  
Exceptional for cleaning oily, greasy, grimy equipment and parts.  
NSF H1 Certified. Kosher Certified.

## **RLI FOOD GRADE™ CLEANER**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants, Home & Garden*

Readily Biodegradable/VGP approved.  
Highly concentrated industrial cleaner (WATER SOLUABLE DETERGENT)  
Does not contain Phosphates, Petroleum Distillates, or Chlorinated Hydrocarbons.  
Safe for ferrous and non-ferrous metals.  
NSF H1 Certified. Kosher Certified.

Item#	87810
-------	-------



HT Oven Lubricants can be used on any kind of oven such as bread, pizza or even tortillas.

# GREASES

## **BIO-FOOD GRADE™ E.P. GREASE**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Aluminum Complex (thickener) grease.  
Excellent water washout (ASTM D1264) and anti-wear performance.  
NSF H1 Certified. Kosher Certified.  
Color: White.

NLGI#	#00	#0	#1	#2	
Pour Point	-30°C	-30°C	-30°C	-30°C	
Viscosity @40°C	142	42.10	42.10	42.10	
Item#	87530	87520	87510	87500	



Water Treatment Facilities using our food grade greases have less effect on the environment.

## **RLI HEAVY SYNTHETIC GREASE NLGI #2**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-10°C
Viscosity @40°C	190-240
Item#	87490

Aluminum Complex (thickener) grease.  
Heavy Synthetic base oil (220 cSt).  
NSF H1 Certified. Kosher Certified.

## **MAXXLIFE FOOD GRADE NLGI #2**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-12°C
Viscosity @40°C	100
Item#	88800

Overbased Calcium Sulfonate (thickener).  
State of the art Premium Multipurpose Grease.  
Contains no Zinc or Heavy Metals.  
NSF H1 Certified. Kosher Certified.

## **BIO-FOOD GRADE™ ANTI-SEIZE NLGI #1**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-25°C
Viscosity @40°C	46
Item#	87560

Readily Biodegradable/VGP approved.  
Fortified with Synthetic White Graphite.  
Aluminum Complex (thickener) grease.  
NSF H1 Certified. Kosher Certified.  
Color: White.

# PENETRANTS

## **BIO-PENETRATING LUBRICANT™ (BPL) (FOOD GRADE)**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants, Home & Garden*

Pour Point	-30°C
Viscosity @40°C	13
Item#	87000

Readily Biodegradable/VGP approved.  
Multifunctional Penetrant.  
Orderless and Tasteless.  
Can be used for light cutting, drilling  
and tapping of metals.  
NSF H1 Certified. Kosher Certified.

## **BIO-FOOD GRADE™ TACKY WHITE**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-25°C
Viscosity @40°C	14
Item#	87070

Readily Biodegradable/VGP approved.  
Fortified with Synthetic White Graphite.  
Orderless and Tasteless.  
Provides an Oil Film Lubricant and  
Solid Graphite Lubricants.  
NSF H1 Certified. Kosher Certified.

## **BIO-DRY SLIDE™ LUBRICANT**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Pour Point	-114°C
Viscosity @40°C	6
Item#	81990

Readily Biodegradable/VGP approved.  
Fortified with Synthetic White Graphite.  
Fast dry solid lubricant, no oily film.  
NSF H1 Certified. Kosher Certified.

# CUTTING OIL

## **BIO-FOOD GRADE™ CUTTING OIL**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Designed for light to medium duty machine operations.  
Non-staining to aluminum and yellow metals.  
May be used for machining, both ferrous and non-ferrous metals.  
Low volatility, Fire Resistant.  
NSF H1 Certified. Kosher Certified.

ISO Grade	32	46	68	
Pour Point	-35°C	-30°C	-25°C	
Viscosity @40°C	31.6	45.0	65.4	
Item#	80810	80810	80810	

## **BIO-ALUMINUM™ CUTTING OIL (FOOD GRADE)**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Specially formulated, biodegradable aluminum cutting oil.  
Non-staining to aluminum and yellow metals.  
Low volatility, Fire Resistant.  
No VOC's.  
NSF H1 Certified. Kosher Certified.

cSt	4	18	
Pour Point	-5°C	-5°C	
Viscosity @40°C	3.5	18.27	
Item#	87400	87410	

# GENERAL PURPOSE

## **BIO-FOOD GRADE™ GENERAL PURPOSE LUBRICANT**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Can be used as an R&O lubricant.  
Provides short-term corrosion protection.  
Lubricates in applications that do not require anti-wear and E.P. additives.  
Excellent compatibility with many types of rubber.  
NSF H1 Certified. Kosher Certified.

ISO Grade	10	15	22	32	46	68	100	150	220
Pour Point	-20°C	-20°C	-20°C	-20°C	-20°C	-18°C	-15°C	-10°C	-5°C
Viscosity @40°C	10	14.71	20.52	31.28	45.67	64.95	99.13	151.29	220.30
Item#	87300	87310	87320	87330	87340	87350	87360	87370	87380

## **BIO-FOOD GRADE™ GENERAL PURPOSE LUBRICANT SAE 20**

*Agriculture, Marine, Food Processing Plants, Home & Garden, Water Utility Plants*

Pour Point	-18°C
Viscosity @40°C	36.9
Item#	87010

Readily Biodegradable/VGP approved.  
Perfect non-petroleum release agent for all Food Grade (3H) applications.  
Uses: grills, ovens, loaf pans, chopping boards, canning lids, knife cutting, and honing oil.  
NSF 3H Certified. Kosher Certified.

## **BIO-PROCESS™ OIL (FOOD GRADE)**

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

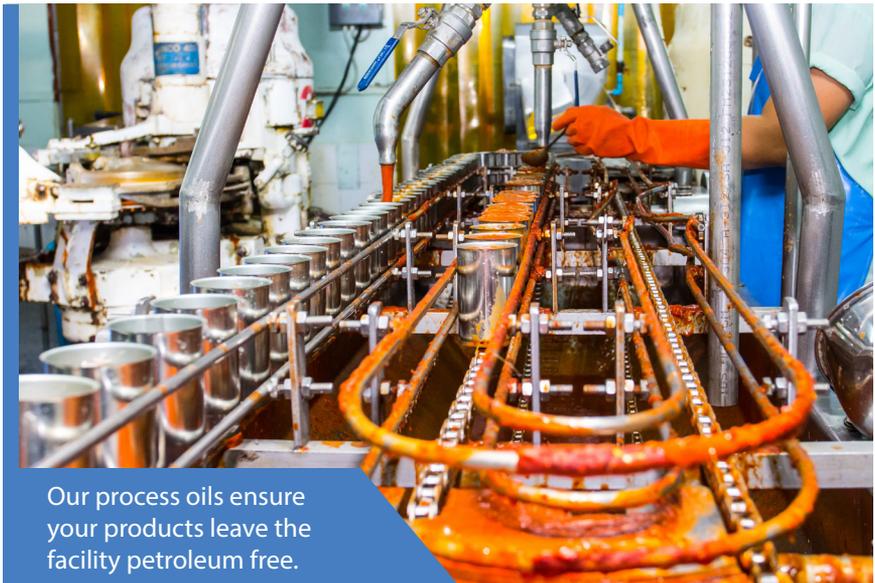
Readily Biodegradable/VGP approved.

Replaces petroleum mineral oils in industrial processing applications.

Uses: dust suppressants, paper defoamers, adhesives, rubber articles, surface lubricant in food packaging areas.

NSF H1 Certified. Kosher Certified.

ISO Grade	50N	70N	100N	150N	200N
Pour Point	-20°C	-20°C	-20°C	-20°C	-20°C
Viscosity @40°C	7.3	13.0	20.9	31.7	38.0
Item#	87020	87030	87040	87050	87060



Our process oils ensure your products leave the facility petroleum free.

# COMPRESSOR OIL

## BIO-SYNXTRA™ FG REFRIGERATION/COMPRESSOR OIL

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Can be used in compressors, vacuum pumps, and refrigeration.  
Full Synthetic.  
NSF H1 Certified. Kosher Certified.

ISO Grade	32	46	68	100	150	220
Pour Point	56°C	-54°C	-50°C	-48°C	46°C	-44°C
Viscosity @40°C	30.0	44.1	67.0	98.0	142.0	209.0
Item#	87830	87840	87850	87860	87870	88780

## BIO-SYNXTRA™ FG COMPRESSOR OIL

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.  
Designed as a multipurpose compressor fluid.  
High-end, synthetic compressor fluid.  
Zinc-free.  
NSF H1 Certified. Kosher Certified.

ISO Grade	32	46	68	100	150	220
Pour Point	-48°C	-44°C	-42°C	-40°C	-38°C	-36°C
Viscosity @40°C	29.5	43.5	66	97	142	205
Item#	87930	87940	87950	87960	87970	87980

## BIO-FOOD GRADE™ AIR TOOL LUBRICANT

*Agriculture, Marine, Food Processing Plants, Water Utility Plants*

Readily Biodegradable/VGP approved.

Designed to replace petroleum based air tool oils.

Can be applied through an airline lubricator or squirting directly into the tool.

NSF H1 Certified. Kosher Certified.

ISO Grade	22	32	
Pour Point	-45°C	-30°C	
Viscosity @40°C	22.4	29.33	
Item#	87450	87460	





**STABILIZED™**  
*by Renewable Lubricants™*

Distributed by:



3125 NW 35th Avenue  
Portland, Oregon 97210  
503.224.8500 | [carsonteam.com](http://carsonteam.com)