



INDUSTRIAL & FOOD GRADE LUBRICATION GUIDE



## BEL-RAY®

### Legacy

For over 70 years, Bel-Ray products have proven their value, setting the highest standards of quality and performance. A leader in lubrication technology, our products have been engineered to protect while delivering superior business value for applications in aerospace, automotive, energy, food, marine, military, mining, motorcycle, OEM, powersports, steel and textile and other industries served by our Marine, Powersports, Industrial and Mining Divisions.



### Sustainability

The Environmental Carbon Management (ECM) Program reduces the overall carbon footprint with responsible waste management and eco-friendly/partially recycled products, packaging, collateral and more. Look for the ECM logo on all Bel-Ray products.

## CALUMET SPECIALTY PRODUCTS PARTNERS, L.P.

Calumet Specialty Products Partners, L.P. (NASDAQ: CLMT) is a master limited partnership and a leading independent producer of high-quality, specialty hydrocarbon products in North America. Calumet processes crude oil and other feedstocks into customized lubricating oils, solvents and waxes used in consumer, industrial and automotive products; produces fuel products including gasoline, diesel and jet fuel; and provides oilfield services and products to customers throughout the United States. Calumet is based in Indianapolis and produces nearly 3,500 unique specialty products used in the development of the world's most trusted brands and products. Calumet is vertically integrated and holds a comprehensive portfolio of branded products for use in commercial, industrial, and consumer applications. Headquartered in Indianapolis, Indiana, the company employs approximately 1600 people and operates 11 facilities across North America. Calumet products and services are available in approximately 52 countries across the world; serving approximately 4,400 customers globally.

Calumet acquired Bel-Ray in December of 2013.





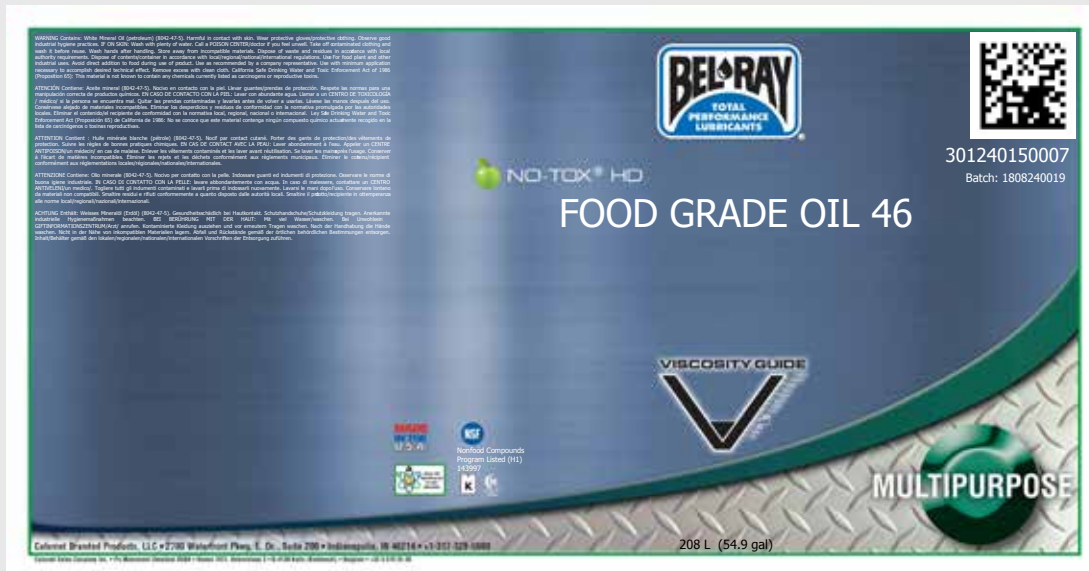
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# LUBRICATION INNOVATION



## MULTILINGUAL LABELS

World-renowned products require globally compliant labeling systems. The Bel-Ray® Mining and Industrial labels feature the implementation of GHS (Globally Harmonized System of Classification and Labeling of Chemicals) regulatory standards, as well as multilingual regulatory information. In addition to English, the labels include information in Spanish, French, Italian and German. Aerosol products feature regulatory information in 25 languages for global distribution.

## DATA MATRIX BARCODE

Bel-Ray has broken into the forefront of automation by introducing a Data Matrix Barcode to be included on their new Mining & Industrial labels. Information is now just a scan away...technology allows the barcode to be scanned from up to 10 feet away and features the product number (SKU) and product batch number.

## VISCOSITY GUIDE

Innovations continue with Bel-Ray's new one-of-a-kind Viscosity Guide. This visual facilitates the use and selection of the appropriate ISO (International Standards Organization) viscosity grade.

## COLOR CODES & ICONS

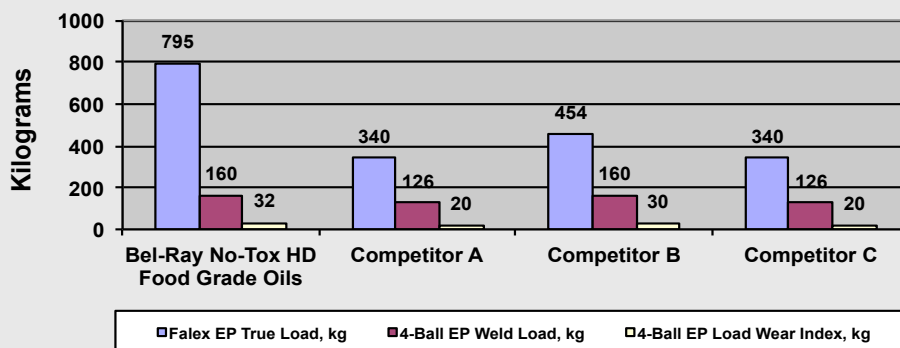
Bel-Ray has made product identification simple with color codes and iconography. Mining and Industrial products have been segmented to align with the following categories and colors:



# UNPARALLELED VALUE

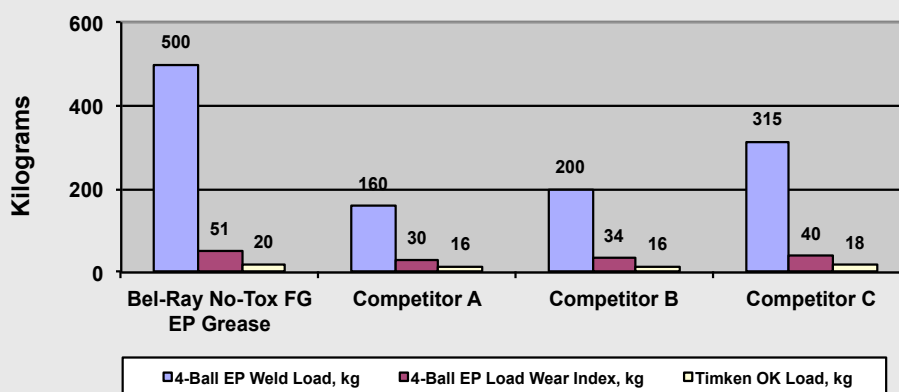


## NO-TOX<sup>®</sup> HD FOOD GRADE OILS



Bel-Ray remains true to its Mission Statement of providing innovative technology resulting in superior performance and value in Bel-Ray No-Tox HD Food Grade Gear Oil. This can be seen in this gear oil “multi-test” comparison chart. With the highest true load in ASTM D3233B Falex Pin & Vee Block Test, the highest Weld Load and Load Wear Index in ASTM D2783 4-Ball EP Test, Bel-Ray No-Tox HD Food Grade Gear Oil is the exception in the lubrication of machinery gear cases in food processing, pharmaceutical and beverage industries where incidental food contact may occur.

## MULTI-TEST COMPARISON OF FOOD GRADE EP GREASES



Bel-Ray No-Tox Food Grade Extreme Pressure Grease is a superior general purpose grease containing PTFE and food grade EP additives. The extreme pressure performance of No-Tox Food Grade Extreme Pressure Grease is exceptional at 500 Kg Weld Load and 51 Kg Load Wear Index on the ASTM D2596 4-Ball EP Test and 20 Kg (45 pounds) on the ASTM D2509 Timken Test. This chart demonstrates that No-Tox Food Grade Extreme Pressure Grease, A Bel-Ray premier general purpose grease, surpasses the competition with respect to both Extreme Pressure and anti-wear capabilities.

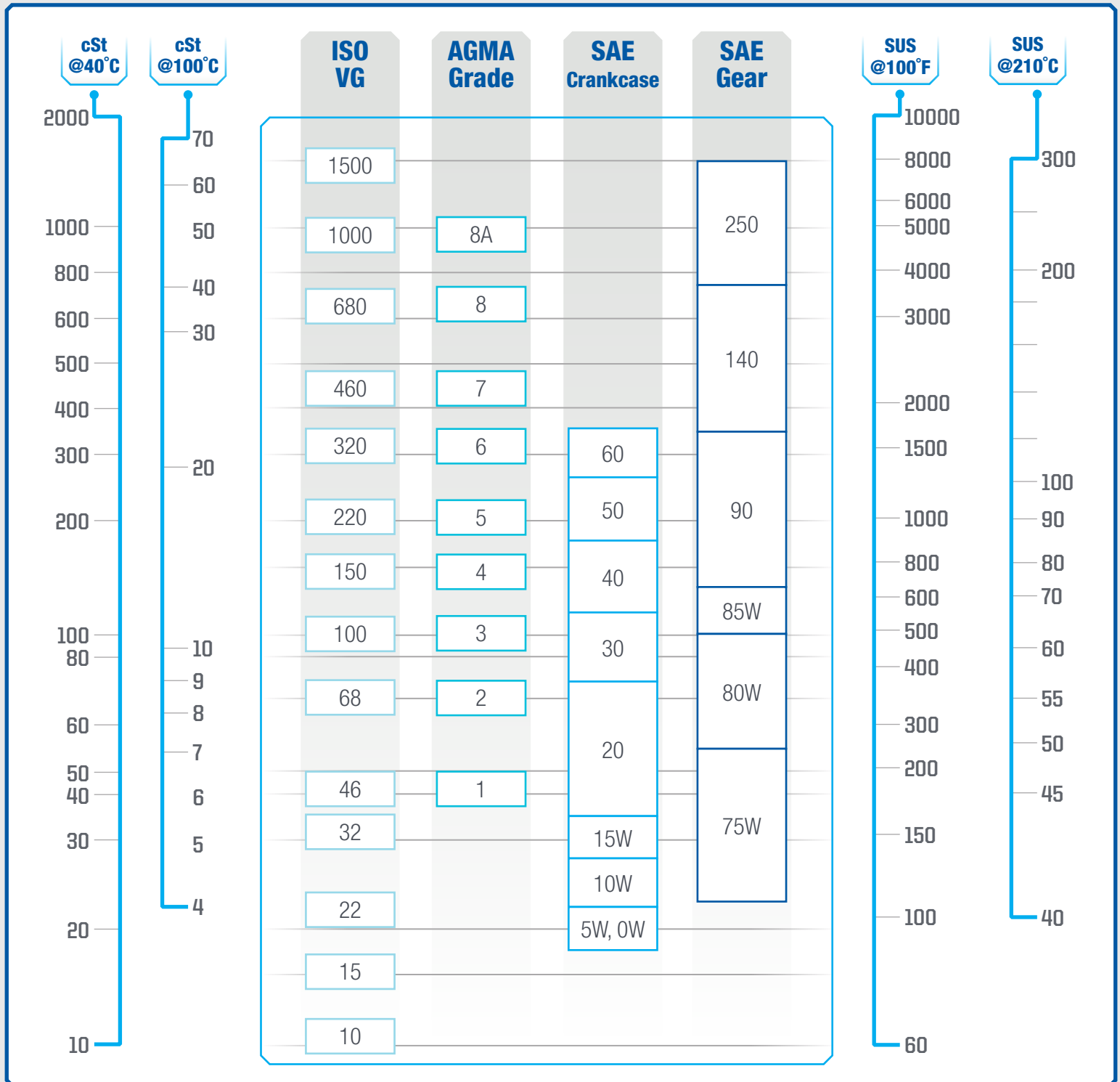


# VISCOSITY CHART

## VISCOSITY CLASSIFICATION EQUIVALENTS

KINEMATIC  
VISCOSITIES

SAYBOLT  
VISCOSITIES



Many petroleum products are graded according to the ISO Viscosity Classification System, approved by the International Standards Organization (ISO). Each ISO viscosity grade number corresponds to the mid-point of a viscosity range expressed in centistokes (cSt) at 40°C. For example, a lubricant with an ISO grade of 32 has a viscosity within the range of 28.8 – 35.2, the midpoint of which is 32.

Rule-of-Thumb: The comparable ISO grade of a given product whose viscosity in SUS at 100°F is known can be determined by using the following conversion formula:  $SUS @ 100^{\circ}F + 5 \approx cSt @ 40^{\circ}C$ .



# NLGI CHART



NLGI CONSISTENCY (GRADE NUMBER)	ASTM WORKED PENETRATION AT 25°C (PENETRATION IN 0.1MM)	APPEARANCE	CONSISTENCY FOOD ANALOG
000	445 - 475	FLUID	COOKING OIL
00	400 - 430	SEMI-FLUID	APPLE SAUCE
0	355 - 385	VERY SOFT	MUSTARD
1	310 - 340	SOFT	TOMATO PASTE
2	265 - 295	"NORMAL" GREASE	PEANUT BUTTER
3	220 - 250	FIRM	VEGETABLE SHORTENING
4	175 - 205	VERY FIRM	FROZEN YOGURT
5	130 - 160	HARD	SMOOTH PÂTÉ
6	86 - 115	VERY HARD	CHEDDAR CHEESE



# BEARINGS

		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	Biodegradable Multipurpose Extreme Pressure Grease	56851	301544	NLGI 2	100	M			F B	
2	Molyube® 3% Moly Extreme Pressure Grease LC	67850 67860	301084 300885	NLGI 0 NLGI 1	150 220	M			M E	
3	Molyube 5% Moly Extreme Pressure Grease AC	69520 69480 69500	301753 300886 300936	NLGI 0 NLGI 1 NLGI 2	150 220 220	M H			M	
4	Molyube 5% Moly Extreme Pressure Grease LC	67820 67832	301612 301083	NLGI 1 NLGI 2	220 460	L M			M E	
5	Molyube 87M Extreme Pressure Grease 150-0	20250	301187	NLGI 1	150	M			M	
6	Molyube Extreme Pressure Grease AC	23220 23240	301201 301696	NLGI 1 NLGI 2	220 150/220	M			M E	
7	Molyube Extreme Pressure High Viscosity Grease	20254 20264	301679 301682	NLGI 1 NLGI 2	680 680	L M			M E	

MINERAL   
 SEMI-SYNTHETIC   
 SYNTHETIC  
 BIODEGRADABLE   
 ECO-FRIENDLY   
 FOOD GRADE   
 NO-TOX®  
 LOW   
 MEDIUM   
 HIGH  
SPEED



**1**

## **BIODEGRADABLE MULTIPURPOSE EXTREME PRESSURE GREASE**

A high-performance, Extreme Pressure grease for general purpose lubrication. Vegetable oil-based for excellent biodegradability and high renewable content. Excellent water washout resistance and mechanical and thermal stability. Superior load-carrying capabilities as well as outstanding rust, corrosion and wear protection for extended component life. The rate of biodegradation is performed by the ASTM test Method D5864 (OECD 301B Modified Sturm Test). Useful temperature range -10°C to 70°C (14°F to 158°F). **THICKENER: Organoclay**

**2**

## **MOLYLUBE® 3% MOLY EXTREME PRESSURE GREASE LC**

A high-performance, lithium complex grease containing 3% molybdenum disulfide, as required by many off-highway equipment OEMs. Exceptional mechanical and thermal stability, excellent anti-wear and Extreme Pressure properties, unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F). **THICKENER: Lithium Complex**

**3**

## **MOLYLUBE 5% MOLY EXTREME PRESSURE GREASE AC**

A high performance aluminum complex grease fortified with excellent Extreme Pressure and anti-wear properties for maximum wear protection. Contains 5% molybdenum disulfide as required by many off-highway equipment OEMs. Weld Load on 4-Ball EP test performance of 800 plus kg and Load Wear Index of 135 kg. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the all major OEMs for multipurpose Extreme Pressure greases. Useful temperature range -18°C to 177°C (0°F to 350°F). **THICKENER: Aluminum Complex**

**4**

## **MOLYLUBE 5% MOLY EXTREME PRESSURE GREASE LC**

A high-performance, lithium complex grease fortified with 5% molybdenum disulfide as recommended by many equipment manufacturers. Excellent Extreme Pressure capabilities as well as outstanding mechanical and thermal stability. Unsurpassed rust and corrosion protection and resistance to water. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Caterpillar (Bucyrus International) SD4711 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -18°C to 177°C (0°F to 350°F). **THICKENER: Lithium Complex**

**5**

## **MOLYLUBE 87M EXTREME PRESSURE GREASE 150-0**

Molylube 87M EP Grease is an aluminum complex multi-purpose grease. It contains Molylube Solids, a Bel-Ray proprietary blend of molybdenum disulfide and select graphite to reduce operating temperature and wear. Molylube 87M EP Grease is designed to extend the service life of machine components in the severe duty applications encountered in mining, quarrying, construction, cement and other heavy industries. Molylube 87M EP Grease is especially effective when used to lubricate the suspension components of heavy-duty equipment such as excavators, dozers, loaders and haul trucks. **THICKENER: Aluminum Complex**

**6**

## **MOLYLUBE EXTREME PRESSURE GREASE AC**

A severe-duty, impact-resistant, aluminum complex grease fortified with molybdenum disulfide. Excellent Extreme Pressure capabilities, outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Bucyrus International SD4711, Caterpillar BI010196 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -12°C to 177°C (10°F to 350°F). **THICKENER: Aluminum Complex**

**7**

## **MOLYLUBE EXTREME PRESSURE HIGH VISCOSITY GREASE**

A high viscosity base oil complex grease fortified with molybdenum disulfide and excellent Extreme Pressure properties. Excellent mechanical and thermal stability. Highly water resistant. Grades 680-1 and 1000-1 are Komatsu approved. Useful temperature range 0°C to 177°C (32°F to 350°F). **THICKENER: Sodium Complex**

Email [tsq@belray.com](mailto:tsq@belray.com) for information on specialty applications.

# BEARINGS

		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	Molyube® High Temperature Grease	17830	301184	NLGI 1	150/220	L M			S	
2	Molyube Low Temperature Multipurpose Grease	46420	301042	NLGI 1	46	M H			M E	
3	Molyube Multipurpose Extreme Pressure Grease with Moly	40900	301524	NLGI 1	220	M H			M	
4	No-Tox® Food Grade Acid Resistant Grease	64093 64094	301586 301587	NLGI 1 NLGI 2	150	M			M E F	
5	No-Tox Food Grade Arctic Temperature Grease	61895	301562	NLGI 1	15	M H			S E F	
6	No-Tox Food Grade Can Seamer Lubricant	62020	301563	NLGI 0/00	150	M H			M E F	
7	No-Tox Food Grade Clear Grease	62230 62240 62250 61730 62260	301566 301058 301567 301234 301568	NLGI 00 NLGI 0 NLGI 1 NLGI 1.5 NLGI 2	100	M H			M E F	Colorless



**1**

## **MOLYLUBE® HIGH TEMPERATURE GREASE**

A synthetic, ester-based high-temperature grease with molybdenum disulfide, designed specifically for extended lubrication cycles in heavily loaded applications. Useful temperature range -18°C to 316°C (0°F to 600°F). **THICKENER: Organoclay**

**2**

## **MOLYLUBE LOW TEMPERATURE MULTIPURPOSE GREASE**

An aluminum complex grease fortified with Molyube Solids. Excellent Extreme Pressure capabilities. Outstanding mechanical and thermal stability. Exceptional water washout resistance, rust and corrosion protection. It has excellent pumpability characteristics for exceptionally cold ambient conditions. Useful temperature range -40°C to 149°C (-40°F to 300°F). **THICKENER: Aluminum Complex**

**3**

## **MOLYLUBE MULTIPURPOSE EXTREME PRESSURE GREASE WITH MOLY**

An aluminum complex, multipurpose grease fortified with molybdenum disulfide for effective heavy-duty service. Outstanding mechanical and thermal stability to withstand shock and heavy loading found in severe environments of mining, construction and process industries. Exceptional water washout resistance, rust and corrosion protection. Exhibits good cohesive and adhesive characteristics. Exceeds all of the multipurpose grease requirements of walking draglines, electric rope shovels and hydraulic excavators and meets the requirements of the Bucyrus International SD4711, Caterpillar BI010196 and Joy Global P&H 472 standards for multipurpose greases. Useful temperature range -26°C to 177°C (-15°F to 350°F). **THICKENER: Aluminum Complex**

**4**

## **NO-TOX® FOOD GRADE ACID RESISTANT GREASE**

A heavy-duty, calcium sulfonate complex-thickened grease designed for the food and beverage industry. Provides Extreme Pressure, anti-wear, exceptional rust and oxidation protection. The waterproof thickener doesn't wash out and resists mildly acidic conditions. Excellent high and low temperature performance. Useful temperature range -50°C to 177°C (-58°F to 350°F). **THICKENER: Ca-Sulf-Complex**

**5**

## **NO-TOX FOOD GRADE ARCTIC TEMPERATURE GREASE**

A synthetic organoclay grease with exceptional low temperature properties. Ideal for bearings subject to extreme fluctuations in temperature and moisture, operating in freezers and chillers found in the "clean" industries such as food, beverage, pharmaceutical and personal care. Useful temperature range -68°C to 121°C (-90°F to 250°F). **THICKENER: Organoclay**

**6**

## **NO-TOX FOOD GRADE CAN SEAMER LUBRICANT**

A high-performance food machinery grease that was developed for use on high-speed can seamers. Useful temperature range -9°C to 120°C (15°F to 250°F). **THICKENER: Aluminum Complex**

**7**

## **NO-TOX FOOD GRADE CLEAR GREASE**

A mineral oil-based, aluminum complex food machinery grease developed specifically for use in the "clean" industries, such as food, beverage, pharmaceutical and personal care. Fortified with waterproof properties and rust/corrosion inhibitors, this grease is ideal for wet environments. Useful temperature range -20°C to 177°C (-4°F to 350°F). **THICKENER: Aluminum Complex**

# BEARINGS

		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	No-Tox® Food Grade Extreme Pressure Grease	63100 63110 63120	301243 301582 301583	NLGI 0 NLGI 1 NLGI 2	100	M H			M E F	
2	No-Tox Food Grade Grease With PTFE	51400	301533	NLGI 2	100	M H			M E F	
3	No-Tox Food Grade High Speed Grease	62570	301575	NLGI 2	32	M H			S E F	
4	No-Tox Food Grade Low Temperature Grease	62470	301573	NLGI 1	32	M H			S E F	
5	No-Tox Food Grade Silicone Grease	41800	301525	NLGI 2	320	L M			S E F	
6	No-Tox Food Grade Synthetic Extreme Pressure Grease	65380 65390	301598 301319	NLGI 1 NLGI 2	220	L H			S E F	



**1**

## **NO-TOX® FOOD GRADE EXTREME PRESSURE GREASE**

A heavy-duty, Extreme Pressure, general purpose grease with excellent resistance to water washout in addition to its exceptional anti-wear and mechanical stability. Useful temperature range -20°C to 177°C (-4°F to 350°F). **THICKENER: Aluminum Complex**

**2**

## **NO-TOX FOOD GRADE GREASE WITH PTFE**

No-Tox Food Grade Grease with PTFE is a white mineral oil based, aluminum complex general purpose food machinery grease and is NSF H1 registered for use where incidental food contact may occur. It is white in color, odorless, tasteless and waterproof. No-Tox Food Grade Grease with PTFE contains a non-toxic, low friction solid lubricant – polytetrafluoroethylene (PTFE) which reduces friction and prevents wear. It is Kosher and Pareve approved, as well as Halal certified. **THICKENER: Aluminum Complex**

**3**

## **NO-TOX FOOD GRADE HIGH SPEED GREASE**

A synthetic PAO-based grease, white in color, odorless, tasteless and waterproof. Effectively lubricates high-speed bearings up to 20,000 rpm. Useful temperature range -57°C to 177°C (-70°F to 350°F). **THICKENER: Aluminum Complex**

**4**

## **NO-TOX FOOD GRADE LOW TEMPERATURE GREASE**

A synthetic PAO-based grease with exceptional low-temperature properties. It is an excellent lubricant for bearings operating in freezers and chillers. Useful temperature range -68°C to 177°C (-90°F to 350°F). **THICKENER: Aluminum Complex**

**5**

## **NO-TOX FOOD GRADE SILICONE GREASE**

A silicone-based grease containing PTFE. This lubricant is extremely stable over wide temperature ranges. It resists deterioration in a number of adverse chemical environments making it an excellent lubricant for chemically challenging applications. Useful temperature range -48°C to 204°C (-55°F to 400°F). **THICKENER: Inorganic**

**6**

## **NO-TOX FOOD GRADE SYNTHETIC EXTREME PRESSURE GREASE**

A synthetic PAO-based, tacky, heavy-duty, Extreme Pressure, general purpose grease with excellent resistance to water washout in addition to its exceptional anti-wear and Extreme Pressure properties. Useful temperature range -50°C to 204°C (-58°F to 400°F). **THICKENER: Aluminum Complex**

# BEARINGS

		Legacy Product Number	New SAP Product Number	Product Grade	Base Oil ISO VG	Speed	Extreme Pressure	Rust, Corrosion & Water Resistant	Product Type	Color
1	No-Tox® Food Grade Synthetic Heavy Duty Grease 2	63370	300882	NLGI 2	460	M H			S E F	
2	No-Tox HD Food Grade Grease	62220 62210 62270 62280	301238 301237 301569 301059	NLGI 00 NLGI 0 NLGI 1 NLGI 2	220	M			M E F	
3	Termalene® Extreme Pressure Grease LC	70319	301087	NLGI 1	220	M			M	
4	Termalene Multipurpose Extreme Pressure Grease	72420 72440	301765 301091	NLGI 1 NLGI 2	150/220	M			M	
5	Termalene Heavy Duty Construction Grease	72560	301338	NLGI 2	220/320	L M			M	
6	Waterproof Grease	99540	301293	NLGI 2	150/220	M			M E	





**1**

## **NO-TOX<sup>®</sup> FOOD GRADE SYNTHETIC HEAVY DUTY GREASE 2**

A synthetic PAO-based, heavy-duty, organoclay-thickened grease with excellent resistance to water washout. Provides longer service at elevated temperatures. Useful temperature range -40°C to 204°C (-40°F to 400°F). **THICKENER:** [Organoclay](#)

**2**

## **NO-TOX HD FOOD GRADE GREASE**

Odorless, tasteless, waterproof, heavy-duty, general purpose grease designed for applications requiring outstanding anti-wear properties. Contains PTFE. Useful temperature range -9°C to 177°C (15°F to 350°F). **THICKENER:** [Aluminum Complex](#)

**3**

## **TERMALENE<sup>®</sup> EXTREME PRESSURE GREASE LC**

Termalene Extreme Pressure Grease LC is a multipurpose, Extreme Pressure, water resistant lithium complex grease. It provides outstanding film strength, adhesive properties, superior wear protection in heavily loaded and shock-load conditions. This product provides excellent lubrication over a wide range of operating conditions. Useful temperature range -40°C to 177°C (-40°F to 350°F). **THICKENER:** [Lithium Complex](#)

**4**

## **TERMALENE MULTIPURPOSE EXTREME PRESSURE GREASE**

An aluminum complex grease with exceptional retention properties and high load-carrying capacity. Adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Low oil separation and good pumpability make it ideal for use in automatic lubrication systems. Useful temperature range -18°C to 177°C (0°F to 350°F). **THICKENER:** [Aluminum Complex](#)

**5**

## **TERMALENE HEAVY DUTY CONSTRUCTION GREASE**

An aluminum complex grease with exceptional retention properties. Extremely adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Load carrying and anti-wear capabilities far surpass conventional greases in applications where bearings are subjected to very high loads, slow speeds and elevated temperatures. Appropriate when temperatures are elevated to 232°C (450°F) for short bursts and not continuous use. Useful temperature range -12°C to 177°C (10°F to 350°F). **THICKENER:** [Aluminum Complex](#)

**6**

## **WATERPROOF GREASE**

A fibrous waterproof grease, providing excellent protection from dirt and saltwater by resisting water and sealing out contaminants. Useful temperature range -18°C to 177°C (0°F to 350°F). **THICKENER:** [Al-Ba-Complex](#)





# CHAINS

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Penetrating	Anti-Wear, Anti-Rust, Anti-Corrosion	Product Type	Color
<b>1</b>	<b>Bakerylube™ Oven Chain Lubricant</b>	56720	301543	Cold Chain	L N H				E	
<b>2</b>	<b>No-Tox® Food Grade Chain Lubricant</b>	61760	301056	ISO 100	N				M E F	
<b>3</b>	<b>No-Tox Food Grade High Temperature Oil 220</b>	62577	301576	ISO 220	L N H				S E F B 	
<b>4</b>	<b>No-Tox Food Grade Multipurpose Lubricant Spray</b>	61881	301561	ISO 100	N				M E F	Colorless
<b>5</b>	<b>No-Tox Food Grade Oven Chain Lubricant</b>	62058	301565	ISO 220	H				S E F	

MINERAL    SEMI-SYNTHETIC    SYNTHETIC  
 BIODEGRADABLE    ECO-FRIENDLY    FOOD GRADE    NO-TOX®  
 LOW    NORMAL    HIGH  
TEMPERATURE

**1**

## **BAKERYLUBE™ OVEN CHAIN LUBRICANT**

Unique oven chain lubricants made from mixtures of graphite powders and fluids, designed to lubricate bakery oven chains at varying temperatures. See PDS for useful temperature range. **ATTRIBUTE:** [Solid Lubricant](#)

**2**

## **NO-TOX® FOOD GRADE CHAIN LUBRICANT**

An excellent general purpose chain lubricant designed for most applications, especially wet environments requiring a medium viscosity oil. **ATTRIBUTE:** [Emulsifiable with Water](#)

**3**

## **NO-TOX FOOD GRADE HIGH TEMPERATURE OIL 220**

An excellent high-temperature lubricant for use on oven chains at temperatures up to 260°C (500°F). A versatile lubricant for bearings and light-duty gears. Reduces oil consumption and is biodegradable. **ATTRIBUTE:** [Self-Cleaning Properties](#)

**4**

## **NO-TOX FOOD GRADE MULTIPURPOSE LUBRICANT SPRAY**

An aluminum complex grease with exceptional retention properties. Extremely adhesive and virtually waterproof. Excellent for bushing and pin applications. Its performance in General Electric's wheel motor hub bearings is unsurpassed. Load carrying and anti-wear capabilities far surpass conventional greases in applications where bearings are subjected to very high loads, slow speeds and elevated temperatures. Appropriate when temperatures are elevated to 232°C (450°F) for short bursts and not continuous use. Useful temperature range -12°C to 177°C (10°F to 350°F).

**5**

## **NO-TOX FOOD GRADE OVEN CHAIN LUBRICANT**

A high-temperature, oven chain lubricant designed to deliver and deposit the advanced food grade solid lubricant, "Graffight," leaving no sludge or carbon residue. Solids lubricate up to 900°C (1652°F). **ATTRIBUTES:** [Solid Lubricant](#), [Self-Cleaning Properties](#), [Emulsifiable with Water](#)

# CHAINS

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Penetrating	Anti-Wear, Anti-Rust, Anti-Corrosion	Product Type	Color
1	No-Tox® Food Grade Waterproof Chain Lubricant	64060 64070	301247 301248	ISO 460 ISO 460 (Spray)	N				M E F	
2	No-Tox Syntex™ Food Grade Synthetic PAG Oil	61790 61792 61794	301235 301057 301001	ISO 150 ISO 220 ISO 320	L N H				S E F	
3	No-Tox Syntra™ Food Grade Synthetic Oil	64234	301315	ISO 32	L N				S E F	
4	Synthetic Chain Lubricant	58750	301232	ISO 220	N H				S E	
5	Waterproof Chain Lubricant	66410	300883	ISO 680 (Spray)	N				M E	

MINERAL    SEMI-SYNTHETIC    SYNTHETIC  
 BIODEGRADABLE    ECO-FRIENDLY    FOOD GRADE    NO-TOX®  
 LOW    NORMAL    HIGH  

TEMPERATURE

**1**

## **NO-TOX<sup>®</sup> FOOD GRADE WATERPROOF CHAIN LUBRICANT**

A high-performance, food-grade chain lubricant with excellent penetrating properties to provide superior component protection, especially in wet environments.

**ATTRIBUTE:** [Emulsifiable with Water](#)

**2**

## **NO-TOX SYNTEX<sup>™</sup> FOOD GRADE SYNTHETIC PAG OIL**

A premium PAG synthetic designed for the lubrication of chains at high temperatures, all types of enclosed gears, including worm gears, and circulating oil systems.

Useful temperature range -32°C (-25°F) to 200°C (392°F). **ATTRIBUTE:** [Self-Cleaning Properties](#)

**3**

## **NO-TOX SYNTRA<sup>™</sup> FOOD GRADE SYNTHETIC OIL**

A state-of-the-art PAO synthetic chain lubricant with exceptional penetration and anti-wear properties. For spiral freezer chains. Used in extremely low temperature applications.

**4**

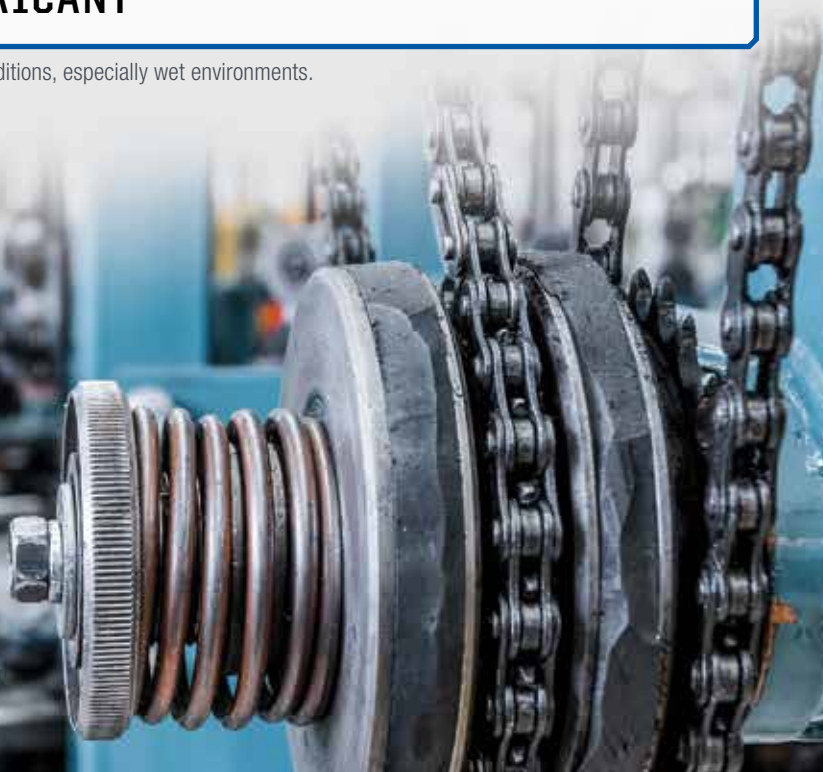
## **SYNTHETIC CHAIN LUBRICANT**

A superb ester synthetic chain lubricant designed for Extreme Pressure and high temperature applications. Useful temperature range -23°C (-10°F) to 204°C (400°F). **ATTRIBUTE:** [Self-Cleaning Properties](#)

**5**

## **WATERPROOF CHAIN LUBRICANT**

A heavy-duty, long-lasting oil for chains and bearings operating in most conditions, especially wet environments.



# COMPRESSORS

1

## NO-TOX® HD FOOD GRADE OIL

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

2









## NO-TOX SYNTRA™ FOOD GRADE SYNTHETIC OIL

A synthetic PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverages, pharmaceutical and personal care. **ATTRIBUTE: Detergency**

3

## SYNTHETIC ESTER COMPRESSOR OIL

A superior diester synthetic compressor oil specifically formulated for rotary and reciprocating compressors. Diester technology makes this a very clean, long-life compressor lubricant. Low deposit formation and excellent reliability. **ATTRIBUTE: Detergency**

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Compressor Type	Wear, Rust, Corrosion & Water Resistant	Product Type	Color
1	<b>No-Tox® HD Food Grade Oil</b>	62683 62684 62685	301240 300931 301578	ISO 46 ISO 68 ISO 100	N	 Rotary Compressors		M E F 	Colorless
2	<b>No-Tox Syntra™ Food Grade Synthetic Oil</b>	64234 64235 64236 64237 64238	301315 301316 301590 301591 301068	ISO 32 ISO 46 ISO 68 ISO 100 ISO 150	L N	 Rotary Compressors		S E F 	Colorless
3	<b>Synthetic Ester Compressor Oil</b>	58150 58160	301226 301227	ISO 46 ISO 68	L N H	 Rotary Compressors		S E	



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®



LOW



NORMAL



HIGH

TEMPERATURE







# ENGINE OIL

1

## HEAVY DUTY DIESEL ENGINE OIL



An exceptional motor oil formulated for use in diesel and gasoline engines where reduced consumption and extended oil drain intervals are desired. Provides superior lubrication performance in heavy-duty diesel or gasoline engine applications commonly found in the mining, transportation and marine industries. API SL/CI-4. An excellent oil for mixed fleet use. TBN 14 base level for extended change intervals.

	Legacy Product Number	New SAP Product Number	Product Grade	Multi-Vis Grade	Wear, Rust, Corrosion & Foam Resistant	Product Type	Color
1 Heavy Duty Diesel Engine Oil	61580	301054	SAE 15W-40				



# ENCLOSED GEARS

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Worm Gears	Wear, Rust & Corrosion Resistant	Product Type	Color
1	No-Tox® HD Food Grade Oil	62685 62686 62687 62688 62689 62690 62691	301578 301579 301241 300920 301242 301580 301581	ISO 100 ISO 150 ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000	N				M E F	Colorless
2	No-Tox Syntex™ Food Grade Synthetic PAG Oil	61790 61792 61794 61796 61798	301235 301057 301001 301560 301236	ISO 150 ISO 220 ISO 320 ISO 460 ISO 680	L N				S E F	
3	No-Tox Syntra™ Food Grade Synthetic Oil	64237 64238 64239 64240 64241 64242 64243	301591 301068 300934 301592 301317 301318 301593	ISO 100 ISO 150 ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000	L N				S E F	Colorless
4	Raylene Extreme Pressure Oil	71660	301334	ISO 1000	L N				M E	
5	Semi-Fluid Grease	43520	301212	N/A	N				M	
6	Synthetic Gear Oil	66900 66920 66940 66960 66980	301321 301605 301606 301607 301608	ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000	L N				S E	

 MINERAL   
  SEMI-SYNTHETIC   
  SYNTHETIC  
 BIODEGRADABLE   
  ECO-FRIENDLY   
  FOOD GRADE   
  NO-TOX®  
 LOW   
 NORMAL   
 HIGH  
 TEMPERATURE

**1****NO-TOX<sup>®</sup> HD FOOD GRADE OIL**

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

**2****NO-TOX SYNTEX<sup>™</sup> FOOD GRADE SYNTHETIC PAG OIL**

A premium PAG synthetic lubricant designed for the lubrication of chains at high temperatures, all types of enclosed gears, including worm gears, and circulating oil systems.

**3****NO-TOX SYNTRA<sup>™</sup> FOOD GRADE SYNTHETIC OIL**

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

**4****RAYLENE EXTREME PRESSURE OIL**

An excellent extra heavy-duty gear oil formulated for all types of gearing. Provides Extreme Pressure and anti-wear properties. Provides micropitting protection. Excellent thermal stability and demulsibility. Does not contain hazardous chemicals such as chlorine, lead, zinc or antimony. Boasts a 100 pound Timken OK Load.

**5****SEMI-FLUID GREASE**

A semi-fluid aluminum complex lubricant that provides superior water repellence and heat resistance while remaining stable to protect against severe shock loads. For use in semi-enclosed or leaky gear cases. This lubricant is rheopectic (shear thickening) to control leakage. Exceptional Extreme Pressure properties.

**6****SYNTHETIC GEAR OIL**

A totally synthetic hydrocarbon and ester combination gear lubricant. Outstanding Extreme Pressure and anti-wear properties, as well as excellent viscosity-temperature properties. Extremely low coefficients of friction and traction. Compatible with mineral oils. Grades ISO VG 220 thru ISO VG 1000 are approved by Flender.



# OPEN GEARS

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Open Gears	Wear, Rust & Corrosion Resistant	Product Type	Color
1	Clear Gear™ Lubricant	21324 21325 21326	301688 301193 301689	>10K >16K >28K	N				S E	Yellow
2	Molyube Gear Tac Tacky Open Gear Lubricant	68940	301746	Medium Light	L N				SS E	Black
3	Molyube Mill Gear Grease	76992	301343	Heavy	N				M E	Grey
4	Molyube Open Gear & Rope Lubricant	77091 (Spray)	301775	Medium	L N				SS E	Yellow
5	Molyube SF 100 Semi-Synthetic Open Gear Lubricant	77010	301344	Medium	L N				M E	Orange
6	No-Tox® Food Grade Open Gear Grease	65400 62450	301599 301572	NLGI 0 NLGI 3	L N				M E F No-Tox	White



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®



LOW



NORMAL



HIGH

TEMPERATURE

**1**

## **CLEAR GEAR™ LUBRICANT**

A high-viscosity synthetic hydrocarbon-based open gear lubricant formulated for grinding mill, kiln and other process open gear systems. Provides full fluid film or hydrodynamic lubrication. Completely fluid and freely drains from shrouds and tooth roots. Allows for gear tooth inspections without complete cleaning. Metso Mineral and Outotec approved.

**2**

## **MOLYLUBE GEAR TAC TACKY OPEN GEAR LUBRICANT**

A high-viscosity paraffinic oil chemically fortified with Molyube® Solids and Extreme Pressure additives. Proprietary polymer technology promotes superior retention properties, minimizing consumption and housekeeping. Maintains lube film in wet conditions. See PDS for temperature range and application instructions.

**3**

## **MOLYLUBE MILL GEAR GREASE**

An aluminum complex, semi-fluid gear lubricant specifically formulated to provide superior lubrication of Type 2 open gear systems. It provides retention characteristics, yet it drains freely from shrouds and troughs. Superior Extreme Pressure, anti-wear and anti-rust capability for extended component life while reducing consumption. Contains Molyube Solids. Heavy Grade - Metso Minerals approved.

**4**

## **MOLYLUBE OPEN GEAR & ROPE LUBRICANT**

Molyube Open Gear & Rope Lubricant is an extremely versatile, heavy-duty, Extreme Pressure spray lubricant recommended for reducing friction and wear in adverse conditions. Specifically designed for use on all types of open gears found on quarry and mining equipment. Also recommended for drive chains, cables, wire ropes, fifth wheels, leaf springs, screw threads, flexible couplings and other applications.

**5**

## **MOLYLUBE SF 100 SEMI-SYNTHETIC OPEN GEAR LUBRICANT**

An environmentally friendly, state-of-the-art lubricant that excels as a multi-service open gear lubricant. An aluminum complex grease fortified with Molyube solids in a semi-synthetic base oil. Excellent Extreme Pressure and anti-wear properties. Proven unsurpassed performance in bushings. Exceeds all of the open gear lubricant requirements.

**6**

## **NO-TOX® FOOD GRADE OPEN GEAR GREASE**

A heavy grease made from semi-synthetic, food grade base fluids thickened with silica gelling agents or aluminum complex thickeners. No-Tox Food Grade Open Gear Grease 3 is a non-melting, tacky gear grease with a high viscosity semi-synthetic base fluid. It is ideal for low speed, high torque gears and sliding surface applications. No-Tox Food Grade Open Gear Grease 0 is an aluminum complex thickened, tacky grease with a high viscosity semi-synthetic base fluid and Extreme Pressure (EP) properties. No-Tox Food Grade Open Gear Grease 0 is suitable for lubrications of bearings in drum dryers and sugarcane mills.



# HYDRAULICS

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Multi-Vis Grade	Ashless	Wear, Rust, Corrosion & Foam Resistant	Product Type	Color
1	No-Tox® BioFR Hydraulic 46	65422	301919	ISO 46	N				S E F	
2	No-Tox Food Grade Fire Resistant Hydraulic Oil 46	77046	300922	ISO 46	N				S E F	Colorless
3	No-Tox HD Food Grade Oil	62680 62681 62682 62683 62684	301060 301002 301061 301240 300931	ISO 15 ISO 22 ISO 32 ISO 46 ISO 68	L  N				M E F	Colorless
4	No-Tox Syntra™ Food Grade Synthetic Oil	64233 64234 64235 64236	301067 301315 301316 301590	ISO 15 ISO 32 ISO 46 ISO 68	L  N				S E F	Colorless
5	Raylene Ashless Multi-Viscosity Hydraulic Oil	71750	300938	ISO 46	L  N				M  E	





**1**

## **NO-TOX® BIOFR HYDRAULIC 46**

No-Tox BioFR Hydraulic 46 is an HFD-U type fire resistant hydraulic fluid. It utilizes synthetic polyol ester type fire resistant hydraulic fluid designed for severe operating conditions in hydraulic applications where petroleum and other synthetic hydraulic fluids create a potentially unsafe environment and where a fire hazard exists. No-Tox BioFR Hydraulic 46 maintains its fire resistant characteristics, providing extended safe service economically. No-Tox BioFR Hydraulic 46 is Factory Mutual certified, NSF H1 registered and readily biodegradable. It is Kosher and Pareve approved, as well as Halal certified.

**2**

## **NO-TOX FOOD GRADE FIRE RESISTANT HYDRAULIC OIL 46**

A high-performance, fire-resistant hydraulic oil designed to provide exceptional wear protection for hydraulic pumps, motors and bearing applications found in the “clean” industries, such as food, beverage, pharmaceutical and personal care, where a fire hazard may exist. Although compatible with most seal materials, filter elements used to clean should be rated for use with aqueous solutions.

**3**

## **NO-TOX HD FOOD GRADE OIL**

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications.

**4**

## **NO-TOX SYNTRA™ FOOD GRADE SYNTHETIC OIL**

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the ‘clean’ industries, such as food, beverage, pharmaceutical and personal care.

**5**

## **RAYLENE ASHLESS MULT-VISCOSITY HYDRAULIC OIL**

An ashless, zinc-free, premium-quality, multi-viscosity hydraulic oil designed for high- and low-pressure hydraulic systems. Contains foam, corrosion and oxidation-inhibitors. Its high-viscosity index and low pour point to ensure excellent fluidity on cold starts. Approved by Racine.





# MULTIPURPOSE

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Extreme Pressure	Penetrating Fluid	Wear, Rust & Corrosion Resistant	Product Type	Color
1	6 in 1® Multipurpose Lubricant	12300 12310 (Spray)	301179 300873	ISO 3	L N				M E	
2	No-Tox® Food Grade Divider Oil	21100 24400 62320	301685 300991 301570	ISO 15 ISO 32 ISO 68	L N				M E F	Colorless
3	No-Tox Food Grade Heat Transfer Fluid 32	62190	300880	ISO 32					S E F	
4	No-Tox Food Grade Multipurpose Lubricant Spray	61881	301561	ISO 100					M E F	Colorless
5	No-Tox Food Grade White Grease Spray	62440	301571	ISO 220 (Base), NLGI 2					M E F	
6	No-Tox HD Food Grade Oil	62680 62681 62682 62683 62684 62685 62686 62687 62688 62689 62690 62691	301060 301002 301061 301240 300931 301578 301579 301241 300920 301242 301580 301581	ISO 15 ISO 22 ISO 32 ISO 46 ISO 68 ISO 100 ISO 150 ISO 220 ISO 320 ISO 460 ISO 680 ISO 1000	L N				M E F	Colorless
7	No-Tox Syntra™ Food Grade Synthetic Oil	64233 64234 64235 64236 64237 64238 64239 64240 64241 64242	301067 301315 301316 301590 301591 301068 300934 301592 301317 301318	ISO 15 ISO 32 ISO 46 ISO 68 ISO 100 ISO 150 ISO 220 ISO 320 ISO 460 ISO 680	L N				S E F	Colorless
8	No-Tox Ultra F 68	62702	300095	ISO 68	N				M E F	



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®



LOW



NORMAL



HIGH

TEMPERATURE

**1****6 IN 1® MULTIPURPOSE LUBRICANT**

A high-performance semi-synthetic multipurpose lubricant. The exceptional lubrication and penetrating properties make the removal of frozen fasteners, rusted bolts and fittings fast and easy. Displaces water, cleans as it lubricates and provides excellent rust protection. USDA H2 rated and is highly recommended for protection of electrical contacts and connections in damp environments. **ATTRIBUTE: Aerosol Option**

**2****NO-TOX® FOOD GRADE DIVIDER OIL**

A non-staining, general purpose lubricant that can be used as a knife lubricant, divider oil, rust protector, mold-release agent and more in the 'clean' industries. H1 and 3H registered.

**3****NO-TOX FOOD GRADE HEAT TRANSFER FLUID 32**

Formulated for use as an NSF and HT1 registered hot oil medium for both open and closed heat transfer systems. It is a fully synthetic fluid that has naturally low carbon forming characteristics, low volatility, good heat capacity and effective high temperature thermal stability, which provides long life in heat transfer service. Formulated with the highest quality synthetic fluids and food grade additives, meets NSF HT1 and FDA requirements for materials that may have incidental contact with food as defined under Title 21 CFR, 178.3570. It is Kosher and Pareve approved, as well as Halal certified. Useful temperature range -50°C to 327°C (-58°F to 620°F). **ATTRIBUTE: Coolant - Heat Transfer Fluid | ATTRIBUTE: Rock Drill Lubricant | ATTRIBUTE: Rust Preventatives**

**4****NO-TOX FOOD GRADE MULTIPURPOSE LUBRICANT SPRAY**

A versatile, general-purpose lubricant designed for all types of equipment found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care. Ideal for preventing rust and displacing water from equipment parts; cleans, lubricates and preserves. **ATTRIBUTE: Aerosol**

**5****NO-TOX FOOD GRADE WHITE GREASE SPRAY**

A premier, high-performance grease fortified with low-friction lubricating solids, anti-wear additives and rust inhibitors designed to provide the optimum equipment and operational protection to the machinery. **ATTRIBUTE: Aerosol**

**6****NO-TOX HD FOOD GRADE OIL**

A series of multipurpose white mineral lubricating oils designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

**7****NO-TOX SYNTRA™ FOOD GRADE SYNTHETIC OIL**

A synthetic, PAO-based, non-toxic, high-performance, multipurpose lubricant designed to provide exceptional anti-wear and rust/corrosion protection in a wide range of applications, including hydraulic systems, gear cases, chains, compressor, bearings and circulating systems and other applications found in the 'clean' industries, such as food, beverage, pharmaceutical and personal care.

**8****NO-TOX ULTRA F 68**

No-Tox Ultra F Oil 68 is a multipurpose white mineral lubricating oils that is NSF H1 registered for use where incidental food contact may occur. No-Tox Ultra F Oil is designed to give exceptional anti-wear, rust and corrosion protection in a wide range of applications including hydraulic systems, gear cases, chains, compressors, bearings and circulating systems and other applications found in the "clean" industries such as food, beverage, pharmaceutical and personal care products. It is Kosher and Pareve approved, as well as Halal certified.

Email [tsq@belray.com](mailto:tsq@belray.com) for information on specialty applications.



# SPECIALTY

		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Seize	Mold Release Agents	Penetrating Fluid	Rust Preventative	Product Type	Color
1	Electric Switch Contact Black Grease	54850	301216	100 (Base), NLGI 2						
2	Electric Switch Contact White Grease	51100	301532	220/320 (Base), NLGI 2						
3	High Temperature Anti-Seize Compound	44500	301526	68 (Base), NLGI 1						
4	Kiln Car Grease	45810	300994	32 (Base), NLGI 1						
5	Mold Release Compound	72050	301763	ISO 100 (Base), NLGI 2						
6	Molylube® Anti-Seize Compound	67710 67700	301610 301082	NLGI 1 NLGI 2						
7	Molylube Anti-Seize Silicone Compound With Moly	14600	300988	NLGI 2						



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®

**1**

## **ELECTRIC SWITCH CONTACT BLACK GREASE**

Non-melting, anti-seize paste with PTFE and moly for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Use will result in break-away torque, a positive measure of its effectiveness. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.

**2**

## **ELECTRIC SWITCH CONTACT WHITE GREASE**

A clean, non-melting anti-seize paste with PTFE for exceptional low frictional properties and load-carrying ability of sliding surfaces and thread applications. Thermal stability prevents seizing, galling, deterioration and minimizes friction for a long and useful life.

**3**

## **HIGH TEMPERATURE ANTI-SEIZE COMPOUND**

An outstanding anti-seize and lubricating compound for threaded and static parts that prevents galling, rust, fretting, galvanic pitting, seizure and corrosion of threads. Preserves integrity during long and severe service and promotes easy disassembly. Its unique blend of graphite and copper lubricating solids allows for exceptional performance at both elevated and ambient temperatures. Useful temperature range -29°C to 1093°C (-20°F to 2000°F).

**4**

## **KILN CAR GREASE**

A synthetic, high-temperature kiln car lubricating grease containing high-performance graphite capable of lubrication up to 538°C (1000°F).

**5**

## **MOLD RELEASE COMPOUND**

A mineral-based, paste mold release paste with an organoclay thickener for high-temperature applications. It is light-colored and will not have an effect on molded pieces.

**6**

## **MOLYLUBE® ANTI-SEIZE COMPOUND**

A non-melting, organoclay grease with 40% of molybdenum disulfide and graphite lubricating solids that protects threads from galling, seizing and fretting. Extreme Pressure properties protect threads from galling, seizing and fretting. Superb rust/corrosion protection.

**7**

## **MOLYLUBE ANTI-SEIZE SILICONE COMPOUND WITH MOLY**

An anti-seize compound containing a high percentage of molybdenum disulfide. The base fluid is silicone, which offers excellent high- and low-temperature characteristics. It is very resistant to oxidation and is not subject to gum or varnish formation. For continuous operation, the temperature range is -46°C to 204°C (-50°F to 400°F) with fringe temperatures up to 316°C (600°F).



# SPECIALTY

		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Seize	Mold Release Agents	Penetrating Fluid	Rust Preventative	Product Type	Color
1	<b>Molylube® Copper Tool Joint Compound</b>	21020	301190	NLGI 1						
2	<b>No-Tox® Food Grade Air Line Lubricant</b>	62050	301564	ISO 22					 	Colorless
3	<b>No-Tox Food Grade Anti-Seize Compound</b>	64170	301066	ISO 220 (Base), NLGI 1					 	
4	<b>No-Tox Food Grade Coolant Concentrate</b>	62560	301574	ISO 22					 	
5	<b>No-Tox Food Grade Dry PTFE Spray</b>	61710	301055	N/A					 	Colorless
6	<b>No-Tox Food Grade Heat Transfer Fluid 32</b>	62190	300880	ISO 32					 	Colorless
7	<b>No-Tox Food Grade Penetrating Lubricant</b>	76000	301339	ISO 7					 	Colorless

MINERAL SEMI-SYNTHETIC SYNTHETIC

BIODEGRADABLE ECO-FRIENDLY FOOD GRADE NO-TOX®



**1**

## **MOLYLUBE® COPPER TOOL JOINT COMPOUND**

Developed for severe applications such as those found in surface and underground mining rock drills and rotary head drills. Recommended for applications involving high-temperature and pressure, vibration and worn or damaged threads. Brush on at 'make-up,' provides excellent protection even when threads become very hot. Excellent rust prevention and wear protection while ensuring easy disassembly properties with low breakout torques.

**2**

## **NO-TOX® FOOD GRADE AIR LINE LUBRICANT**

Designed with air line and pneumatic tools in mind, this versatile lubricant maximizes air tool life while optimizing pneumatic system performance.

**3**

## **NO-TOX FOOD GRADE ANTI-SEIZE COMPOUND**

A synthetic-based, aluminum complex, anti-seize compound with excellent adhesion that is designed to protect parts from galling, seizing and fretting.

**4**

## **NO-TOX FOOD GRADE COOLANT CONCENTRATE**

Innovative technology that gives security, safety and confidence by providing a secondary coolant medium. Freezing point -54°C (-65°F).

**ATTRIBUTE:** [Coolant - Heat Transfer Fluid](#)

**5**

## **NO-TOX FOOD GRADE DRY PTFE SPRAY**

No-Tox Food Grade Dry PTFE Spray is an outstanding dry-film lubricant in an aerosol package for convenient application. No-Tox Food Grade Dry PTFE Spray, formulated with the highest quality ingredients, meets NSF® H1 and FDA requirements for materials that may have incidental contact with food as defined under Title 21 CFR 178.3570. It is Kosher and Pareve approved, as well as Halal certified. Useful temperature range -200°C to 250 °C (-328°F to 480°F).

**ATTRIBUTES:** [Aerosol](#), [Air Line/Air Tool Lubricant](#)

**6**

## **NO-TOX FOOD GRADE HEAT TRANSFER FLUID 32**

Formulated for use as an NSF and HT1 registered hot oil medium for both open and closed heat transfer systems. It is a fully synthetic fluid that has naturally low carbon forming characteristics, low volatility, good heat capacity and effective high temperature thermal stability, which provides long life in heat transfer service. Formulated with the highest quality synthetic fluids and food grade additives, meets NSF HT1 and FDA requirements for materials that may have incidental contact with food as defined under Title 21 CFR, 178.3570. It is Kosher and Pareve approved, as well as Halal certified. Useful temperature range -50°C to 327°C (-58°F to 620°F). **ATTRIBUTE:** [Coolant - Heat Transfer Fluid](#) | **ATTRIBUTE:** [Rock Drill Lubricant](#)

**7**

## **NO-TOX FOOD GRADE PENETRATING LUBRICANT**

A low-viscosity, penetrating lubricant that permeates even the smallest of clearances to loosen seized parts while it cleans, lubricates and preserves.



# SPECIALTY

		Legacy Product Number	New SAP Product Number	Product Grade	Anti-Seize	Mold Release Agents	Penetrating Fluid	Rust Preventative	Product Type	Color
1	No-Tox® Food Grade Seamer Oil	64226 64227 64228	301589 301312 301313	ISO 100 ISO 150 ISO 220					M E F	Colorless
2	No-Tox Food Grade Silicone Lubricant Spray	61780	300879	ISO 320					S E F	Colorless
3	No-Tox Food Grade Silicone Oil 350	64229	301314	ISO 220/320					S E F	Colorless
4	No-Tox Food Grade Silicone Valve Seal Lubricant	64100	301588	ISO 680 (Base), NLGI 3					S E F	Colorless
5	No-Tox Food Grade Sugar Soluble Emulsion	76100	301340	ISO 5/7					S E F	Colorless
6	Sugar Clear Gear & Bearing Lubricant	21342	301691	Heavy					S E	



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®

**1****NO-TOX® FOOD GRADE SEAMER OIL**

Specifically designed for can seaming equipment. Excellent in high-moisture environments.

**2****NO-TOX FOOD GRADE SILICONE LUBRICANT SPRAY**

A high-viscosity silicone aerosol lubricant designed for general purpose use in a wide range of applications. **ATTRIBUTE:** [Aerosol](#)

**3****NO-TOX FOOD GRADE SILICONE OIL 350**

An odorless, colorless and tasteless silicone fluid with excellent oxidation resistance, thermal stability, non-corrosive properties, tarnish resistance and water resistance that is chemically inert with low flammability and good thermal conductivity. NSF H1 and 3H registered.

**4****NO-TOX FOOD GRADE SILICONE VALVE SEAL LUBRICANT**

A non-melting, smooth, tacky, waterproof, grease-like silicone compound for valves, 'O' rings, pump seals, gaskets, meters and gauges. Will not affect rubber, plastic or metal. Unaffected by mild acids, alkalis, alcohol and glycol. Broad useful temperature range -40°C to 260°C (-40°F to 500°F).

**5****NO-TOX FOOD GRADE SUGAR SOLUBLE EMULSION**

A water-white fluid formulated for food and candy industries to prevent sugar from sticking to machinery. An excellent solvent for dissolving sugar from surfaces previously coated in sugar and for clean surfaces to prevent sugar from sticking to the surface.

**6****SUGAR CLEAR GEAR & BEARING LUBRICANT**

A high viscosity, synthetic blend lubricant for open gears and bearings found in the sugar processing industry. The product is compounded with a proprietary chemical system that includes Extreme Pressure, anti-wear and rust and corrosion protection. Synthetic polymers maximize film formation and bearing sealing to eliminate in-season production losses.





# WIRE ROPES

		Legacy Product Number	New SAP Product Number	Product Grade	Temperature	Viscosity Base	Penetrating Fluid	Extreme Pressure	Wear, Rust & Corrosion Resistant	Product Type	
<b>1</b>	<b>Molyube® Open Gear &amp; Rope Lubricant</b>	77091	301775	Medium	L N					E	
<b>2</b>	<b>Non-Melt Wire Rope Coating Grease</b>	40060	301206	3	N	H				E	
<b>3</b>	<b>Wire Rope Lubricant</b>	66680 (High Viscosity) 66700 (Low Viscosity)	301602 301603	N/A	L N	L H				E	



MINERAL



SEMI-SYNTHETIC



SYNTHETIC



BIODEGRADABLE



ECO-FRIENDLY



FOOD GRADE



NO-TOX®



LOW



NORMAL

TEMPERATURE



LOW



HIGH

VISCOSITY

**1**

## **MOLYLUBE® OPEN GEAR & ROPE LUBRICANT**

An environmentally friendly, state-of-the-art lubricant that excels as a multi-service open gear lubricant. An aluminum complex grease fortified with Molyube solids in a semi-synthetic base oil. Excellent Extreme Pressure and anti-wear properties. Proven unsurpassed performance in bushings. Exceeds all of the open gear lubricant requirements. **ATTRIBUTE:** [Aerosol](#)

**2**

## **NON MELT WIRE ROPE COATING GREASE**

A general purpose, non-melting grease that is formulated for optimum water resistance, adhesion, mechanical stability, corrosion protection and oxidation resistance. The bodying agent in the Non-Melt Wire Rope Coating Grease is a stable chemical compound. This feature makes it completely structurally and chemically stable under all service and storage conditions. It won't corrode steel and copper bearing alloys and is compatible with conventional seal materials and with all Kirkpatrick Wire Rope Lubrication Systems. Suitable for use with clamp type wire rope lubricator system.

**3**

## **WIRE ROPE LUBRICANT**

A specially formulated penetrating lubricant for wire ropes. Can be applied directly onto wet ropes while providing excellent adhesive properties, reducing consumption. Prevents inner strand corrosion and rubbing wear. It is an all-season product that does not require change of grades as temperatures fluctuate. Applicable manually or through most automatic lube systems. Useful temperature range -46°C to 60°C (-50°F to 140°F).





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6 in 1® Multipurpose Lubricant			
ISO 3	Drum 301179150007   Aerosol 300873150285		26
Bakerylube™ Oven Chain Lubricant			
Cold Chain	Pail 301543150025		14
Biodegradable Multipurpose Extreme Pressure Grease			
NLGI 2	Lined Keg 301544150014		6
Clear Gear™ Lubricant			
>10K	Drum 301688150002		22
>16K	Drum 301193150002		22
>28K	Drum 301689150002		22
Electric Switch Contact Black Grease			
100 (Base), NLGI 2	Pail 301216150025		28
Electric Switch Contact White Grease			
220/230 (Base), NLGI 2	Keg 301532150013   Pail 301532150025		28
Heavy Duty Diesel Engine Oil			
SAE 15W-40	Drum 301054150007		19
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68 (Base), NLGI 1	Pail 301526150025		28
Kiln Car Grease			
32 (Base), NLGI 1	Drum 300994150002		28
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100 (Base), NLGI 2	Drum 301763150002		28
Molyube 3% Moly Extreme Pressure Grease LC			
NLGI 0	Fluid Bag 301084150526		6
NLGI 1	Fluid Bag 300885150526   Lined Drum 300885150004		6
Molyube 5% Moly Extreme Pressure Grease AC			
46 (Base), NLGI 0	Space Kraft 301750150335		20, 22
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NLGI 1	Aluminum Bin 300886150330   Fluid Bag 3008863150526   Lined Drum 300886150004		6, 20, 22
NLGI 2	Drum 300936150002		6, 20, 22
Molyube 5% Moly Extreme Pressure Grease LC			
NLGI 1	Fluid Bag 301612150526		6
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Molyube 87M Extreme Pressure Grease 150-0			
NLGI 1	Lined Drum 301187150004		6



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<b>Molyube Anti-Seize Compound</b>			
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NLGI 2		Pail 301082150025   Caulking Cartridge 301082150251	28
<b>Molyube Anti-Seize Silicone Compound With Moly</b>			
NLGI 2		Brush Top 300988150260	28
<b>Molyube Copper Tool Joint Compound</b>			
NLGI 1		Pail 301190150025	30
<b>Molyube Extreme Pressure Grease AC</b>			
NLGI 1		Lined Drum 301201150004	6
NLGI 2		Drum 301696150004   Cartridge 301696150230	6
<b>Molyube Extreme Pressure High Viscosity Grease</b>			
NLGI 1		Lined Drum 301679150004	6
NLGI 2		Lined Drum 301682150004	6
<b>Molyube Gear Tac Tacky Open Gear Lubricant</b>			
Medium Light		Lined Drum 301746150004	22
<b>Molyube High Temperature Grease</b>			
NLGI 1		Cartridge 301184150230	8
<b>Molyube Low Temperature Multipurpose Grease</b>			
NLGI 1		Fluid Bag 301042150526   Lined Drum 301042150004	8
<b>Molyube Mill Gear Grease</b>			
Heavy		Drum 301343150002	22
<b>Molyube Multipurpose Extreme Pressure Grease With Moly</b>			
NLGI 1		Lined Drum 301524150004   Drum 301524150002	8
<b>Molyube Open Gear &amp; Rope Lubricant</b>			
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<b>Molyube SF 100 Open Gear Lubricant</b>			
Medium		Lined Drum 301344150004   Caulking Cartridge 301344150251	22
<b>No-Tox® BioFR Hydraulic 46</b>			
ISO 46		Drum 301919150007   Pail 301919150025	24
<b>No-Tox Food Grade Acid Resistant Grease</b>			
NLGI 1		Lined Drum 301586150004   Keg 301586150013   Cartridge 301586150230	8
NLGI 2		Pail 301587150025   Cartridge 301587150230	8
<b>No-Tox Food Grade Air Line Lubricant</b>			
ISO 22		Drum 301564150007   Keg 301564150010   Pail 301564150025	30
<b>No-Tox Food Grade Anti-Seize Compound</b>			
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NLGI 0/00	Pail 301563150025		8
No-Tox Food Grade Chain Lubricant			
ISO 100	Drum 301056150007   Pail 301056150025		14
No-Tox Food Grade Clear Grease			
NLGI 00	Keg 301566150013   Pail 301566150025		8
NLGI 0	Tote 301058150355   Pail 301058150025   Small Pail 301058150020   Cartridge 301058150230		8
NLGI 1	Drum 301567150002   Keg 301567150013   Pail 301567150025   Sm Pail 301567150020   Cartridge 301567150230		8
NLGI 1.5	Drum 301234150002   Pail 301234150025   Cartridge 301234150230		8
NLGI 2	Drum 301568150002   Keg 301568150013   Pail 301568150025   Sm Pail 301568150020   Cartridge 301568150230		8
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ISO 22	Drum 301574150007   Pail 3015746150025		30
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ISO 32	Drum 300991150002   Pail 300991150025		26
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No-Tox Food Grade Dry PTFE Spray			
N/A	Aerosol 301055150285		30
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NLGI 0	Keg 301243150013   Lined Keg 301243150014		10
NLGI 1	Keg 301582150013   Lined Keg 301582150014   Pail 301582150025		10
NLGI 2	Keg 301583150013   Pail 301583150025   Cartridge 301583150230		10
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No-Tox Food Grade Grease with PTFE			
ISO 100	Pail 301533150025		10
No-Tox Food Grade Heat Transfer Fluid 32			
ISO 32	Pail 300880150025		26, 30
No-Tox Food Grade High Speed Grease			
NLGI 2	Pail 301575150025   Cartridge 301575150230		10
No-Tox Food Grade High Temperature Oil 220			
ISO 220	Drum 301576150007   Pail 301576150025		14
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NLGI 1	Drum 301573150002   Pail 301573150025   Cartridge 301573150230		10



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NLGI 0	Drum 301599150002   Pail 301599150025		22
NLGI 3	Keg 301572150013   Pail 301572150025   Caulking Cartridge 301572150251		22
No-Tox Food Grade Oven Chain Lubricant			
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No-Tox Food Grade Penetrating Lubricant			
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NLGI 1	Drum 301598150002   Keg 301598150013   Lined Keg 301598150014   Pail 301598150025   Cartridge 301598150230		10
NLGI 2	Drum 301319150002   Keg 301319150013   Lined Keg 301319150014   Pail 301319150025   Cartridge 301319150230		10
No-Tox Food Grade Synthetic Heavy Duty Grease 2			
NLGI 2	Pail 300882150025   Cartridge 300882150230		12
No-Tox Food Grade Sugar Soluble Emulsion			
ISO 5/7	Drum 301340150007   Pail 301340150025		32
No-Tox Food Grade Waterproof Chain Lubricant			
ISO 460	Drum 301247150007   Pail 301247150025		16
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NLGI 0	Drum 301237150002   Lined Keg 301237150014   Keg 301237150013   Pail 301237150025   Sm Pail 301237150020   Cart 301237150230		12



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NLGI 2	Drum 301059150002   Lined Keg 301059150014   Keg 301059150013   Pail 301059150025   Sm Pail 301059150020   Cart 301059150230		12
No-Tox HD Food Grade Oil			
ISO 15	Drum 301060150007   Pail 301060150025		24, 26
ISO 22	Drum 301002150007   Keg 301002150010   Pail 301002150025		24, 26
ISO 32	Bin 301061150340   Drum 301061150007   Keg 301061150010   Pail 301061150025   4 Liter 301061150135		24, 26
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ISO 68	Bin 300931150340   Drum 300931150007   Keg 300931150010   Pail 300931150025   4 Liter 300931150135		18, 24, 26
ISO 100	Drum 301578150007   Keg 301578150010   Pail 301578150025   4 Liter 301578150135		18, 20, 26
ISO 150	Bin 301579150340   Drum 301579150007   Keg 301579150010   Pail 301579150025   4 Liter 301579150135		20, 26
ISO 220	Drum 301241150007   Keg 301241150010   Pail 301241150025   4 Liter 301241150135		20, 26
ISO 320	Drum 300920150007   Keg 300920150010   Pail 300920150025   4 Liter 300920150135		20, 26
ISO 460	Drum 301242150007   Keg 301242150010   Pail 301242150025		20, 26
ISO 680	Drum 301580150007   Keg 301580150010   Pail 301580150025   4 Liter 301580150135		20, 26
ISO 1000	Drum 301581150007   Pail 301581150025		20, 26
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ISO 220	Drum 301057150007   Pail 301057150025		16, 20
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No-Tox Syntra™ Food Grade Synthetic Oil			
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ISO 46	Drum 301316150007   Pail 301316150025		18, 24, 26
ISO 68	Drum 301590150007   Pail 301590150025		18, 24, 26
ISO 100	Drum 301591150007   Pail 301591150025		18, 20, 26
ISO 150	Drum 301068150007   Pail 301068150025		18, 20, 26
ISO 220	Drum 300934150007   Pail 300934150025		20, 26
ISO 320	Drum 301592150007   Pail 301592150025		20, 26
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Raylene Extreme Pressure Oil			
ISO 1000		Drum 301334150007	20
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Sugar Clear Gear & Bearing Lubricant			
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Synthetic Chain Lubricant			
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ISO 320		Wire Mesh Bin 301605150340   Drum 301605150007	20
ISO 460		Drum 301606150007	20
ISO 680		Wire Mesh Bin 301607150340   Drum 301607150007	20
ISO 1000		Drum 301608150007	20
Termalene® Extreme Pressure Grease LC			
NLGI 1		Keg 301087150014	12
Termalene Heavy Duty Construction Grease			
NLGI 2		Drum 301338150002   Cartridge 301338150230	12
Termalene Multipurpose Extreme Pressure Grease			
NLGI 1		Lined Drum 301765150004	12
NLGI 2		Lined Drum 301091150004   Cartridge 301091150230	12
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Waterproof Grease			
NLGI 2		Drum 301293150002   Cartridge 301293150230   16 oz Tub 301293150225	12
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High Viscosity		Wire Mesh Bin 301602150340   Drum 301602150007	34
Low Viscosity		Pail 301603150025	34





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2780 WATERFRONT PKWY. E. DR. | INDIANAPOLIS, IN | 46214 USA

TEL +1-317-328-5660 CUSTOMERSERVICE@BELRAY.COM FAX +1-732-938-4232

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