



FEED MILL

LUBRICATION GUIDE





FEED MILL

FOOD GRADE LUBRICATION GUIDE

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DIGITAL COPY



RECEIVING

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Drag Conveyors	Bearings	No-Tox® Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Drag Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Worm Gear Boxes	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Gate Rail Screw	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
2 Way Valve	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
General Greasing	Zerk Fittings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Elevator Magnet-Air Drive	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
Elevator	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Bucket Elevator Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Elevator	Pillow Block Bearings	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Diverter Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Diverter Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Hydraulic Systems	Reservoir	No-Tox BioFR Synthetic Hydraulic 46	65422	301919	Synthetic
Scalping Screw	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Scalping Screw	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Scalping Conveyor	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Scalping Conveyor	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Trailer Lifts	Reservoir	No-Tox BioFR Synthetic Hydraulic 46	65422	301919	Synthetic
Turn Head Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Turn Head Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Turn Head Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic

GRINDING

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Drum Sieve	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Bag Filter & Suction Fan	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Drag Conveyor Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Drag Conveyor Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Drag Conveyor Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Belt Feeder	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Hammer Mill	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Hammer Mill Feeder Gear Box	GBX Reservoir	No-Tox HD Food Grade Oil 220	62687	301241	Mineral
Hammer Mill Feeder Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Screw Conveyor	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Bucket Elevator	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Elevator Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Elevator Magnet-Air Drive	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral

BATCHING/MIXING

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Horizontal Batch Mixer	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Sprout Mixer Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Sprout Mixer Gear Box	GBX Reservoir	No-Tox HD Food Grade Oil 220, Optional ISO VG 460	62687, 62689	301241, 301242	Mineral
Screw/Chain Conveyor Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Conveyor Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Conveyor Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
2 Way Valve Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
2 Way Valve Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
2 Way Valve Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Bucket Elevator	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Micro Bin	Bearings, Zerk Fittings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Micro Bin	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Sidney Elevator Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Sidney Elevator Bearings	Pillow Block Bearings	No-Tox HD Food Grade Oil 460	62689	301242	Mineral

PELLETING

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Cooling Fan Bearings	Electric Motor Bearings	No-Tox Food Grade Clear Grease 2	62260	301568	Mineral
Extruder	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Pellet Mill Bearings	Main Bearings, Roller Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Pellet Mill Gear Box	California Pellet Mills	No-Tox Syntra™ Food Grade Synthetic Oil 460	64241	301317	Synthetic
Pellet Cumbler Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Pellet Cumbler Gear Box	Gear Box	No-Tox Syntra Food Grade Synthetic Oil 220	64239	300934	Synthetic
Bucket Elevator	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Bag House Airline	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
Bag House Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Bag House Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Bag House Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Bag House Airline	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
Gates	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
Feeder Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Feeder Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Conditioner	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Air Lock Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Air Lock Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Air Lock Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Cooler Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Cooler Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Cooler Grease Fittings	Zerks	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Conveyor Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Conveyor Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Conveyor Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
2 Way Valve Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
2 Way Valve Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
2 Way Valve Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Shaker - All Grease Fittings	Zerks	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Fat Coater Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Fat Coater Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Scrubber - All Grease Fittings	Zerks	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Sidney Elevator Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral

LOAD OUT/PACKING

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Screw Conveyor	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Pellet Sieve Vibrator Motor Bearings	Electric Motor Bearings	No-Tox Food Grade Clear Grease 2	62260	301568	Mineral
Conveyor Gear Box	WGB Reservoir	No-Tox HD Food Grade Oil 460	62689	301242	Mineral
Conveyor Roller Chain	Chain	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	64070	301248	Mineral
Conveyor Bearings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Gates	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral
Hydraulic Systems	Reservoir	No-Tox BioFR Synthetic Hydraulic 46	65422	301919	Synthetic
Rail Car Vibrators	Airline Lubricator	No-Tox Food Grade Airline Lubricant	62050	301564	Mineral

MISCELLANEOUS/UTILITY APPLICATIONS

Location & Equipment	Location Point	Recommended Food Grade Lubricant	Legacy	SAP Number	Product Type
Compressors	OEM and Lubricant Specifications	Contact Bel-Ray Technical Service Dept.			
Personnel Elevators Gear Box	Reservoir	No-Tox HD Food Grade Oil 220, Optional ISO VG 460	62687, 62689	301241, 301242	Mineral
Personnel Elevators Chains/Cables	Auto Lubricator, Aerosol	Contact Bel-Ray Technical Service Dept.			
Personnel Elevators Grease Fittings	Bearings	No-Tox Food Grade Synthetic Extreme Pressure Grease 2	65390	301319	Synthetic
Fork-Lift & Yard Trucks	Engines, Gears, Zerks, Chains & Hyds.	Contact Bel-Ray Technical Service Dept.			
Truck Probe Tubes	Light Oil on Tubes for Easy Rotation	No-Tox Food Grade Divider Oil 32	24400	300991	Mineral
Truck Probe Chain	Chain Lubricant Monthly	No-Tox Food Grade Waterproof Chain Lubricant Aerosol	62050	301564	Mineral



BEL-RAY®

For over 75 years, Bel-Ray® has been a leader in lubrication technology. Our products are engineered to protect equipment, reduce downtime and maximize operational efficiency to deliver superior business value across a wide variety of applications, including Automotive, Motorcycle and Power Sports, Mining, Oil and Gas Pipeline Operations, Food Processing, Heavy Equipment and other Industries.

Bel-Ray products have achieved the highest standards of quality and performance, while operating under harsh conditions and the toughest environments, earning the trust of Industrial Maintenance, Reliability and Engineering professionals across the globe.

CALUMET

Calumet (NASDAQ: CLMT) is a leading independent producer of high-quality, specialty hydrocarbon products and services customers around the world. Calumet processes crude oil and other feedstocks into customized lubricating oils, solvents and waxes used in consumer, industrial and automotive products; produces fuels including renewable diesel, renewable gasoline and is a leading producer of Sustainable Aviation Fuel (SAF) in North America; and provides oilfield services and products to customers throughout the United States.

Headquartered in Indianapolis, Indiana, over 1,600 team members operate at 12 specialty product manufacturing and production facilities across North America, producing 1,900+ unique products, which are available in more than 90 countries across the world, serving 2,400+ customers globally.

Calumet acquired Bel-Ray in December 2013 which is a part of the Performance Brands portfolio.

The NSF® categorizes food grade lubricants based on their potential contact with food, with H1* and 3H being key classifications.**

H1 Lubricants are designed for use when incidental, unavoidable food contact may occur, such as on machinery near food.

- Typically used in equipment and machinery such as on conveyor belts, pumps, and other parts of food processing machinery
- Meets NSF specific criteria for safety, including being odorless, non-toxic and non-reactive with food
- Allowed amount of lubricant that can be transferred to the food product is limited to a trace amount, often specified as 10 parts per million (10 ppm)

3H Lubricants are water-soluble oils, often edible oils, and biodegradable, used for rust prevention and cleaning on equipment.

- Typically applied to hooks, trolleys and similar equipment used in food processing
- Direct food contact is acceptable and does not need to be removed

Bel-Ray No-Tox products are NSF H1 and/or NSF 3H Registered, kosher and pareve approved and halal certified.

*NSF H1 = Incidental Food Contact

**NSF 3H = Direct Food Contact

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The Halal logo is a registered trademark of the Islamic Food and Nutrition Council of America (IFANCA).

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