

PRODUCT DATA SHEET

PRODUCT NAME: Food Grade Chain & Gear Oil
INS and NSF H1 registered

CODE: FF172

Fully synthetic food grade oil with characteristics that make it particularly suited for the lubrication of drive chains, conveyor chains and gearboxes and reduction units that are designed for an ISO 220 gearbox oil. Food Grade Chain & Gear Oil contains special additives that extend re-lubrication intervals considerably; and does not contain any mineral oil.

Cost Saving Benefits (when used on chains)

1. Penetrates to the links and pins reducing wear and extending chain life
2. Tackiness additives ensure non-drip, no fling thus providing lasting lubrication
3. Excellent adhesive characteristics ensures a high degree of water resistance and protects parts from corrosion even in the presence of acidic materials commonly associated with the food and drinks industries.
4. Extremely wide temperature range ensures maximum application versatility.

Cost Saving Benefits (when used in gearboxes)

1. Extremely good oxidation stability which extends lubricant life
2. Unaffected by water - total separation of water from oil
3. Tackiness additives coat gears effectively and provide anti-wear protection at start-up
4. Synthetic oil with high Viscosity Index ensures reduced viscosity change with temperature increase

Method of application

For drive and conveyor chains-Apply sparingly by brush or oil can as required. Can also be applied automatically using a central drip feed system.

For gearboxes and reduction units – Ensure that the gearbox manufactures' lubricant rating corresponds to using an ISO 220 gear oil.

Typical Physical Characteristics

Appearance		Tacky oil
Base Oil		Fully synthetic
Kinematic Viscosity (ASTM4451)	@ 40°C (typical)	220cSt
	@ 100°C	23.7 cSt
Viscosity Index (ASTM D2270)		135
Demulsibility (ASTM D1401) 30 min.		40-37-3
Foaming (ASTM D892) After settling	Sequence 1	Nil
	Sequence 2	Nil
	Sequence 3	Nil
Copper corrosion (ASTM D130)		1b
FZG Gear Test Stage		11
Operating temperature range		-30°C to +240°C

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This lubricant is recommended for use where incidental contact with food may occur. Registered by INS (Class H1) and NSF (Class H1) and meets the USDA H1 guidelines (1998) for lubricants for use where there is a potential for incidental food contact.

Made only from substances permitted under the US FDA Title 21 CFR 178.3570, 178.3620 and/or those generally regarded as safe (US 21 CFR 182) for use in food grade lubricants.

To comply with the requirements of US 21 CFR 178.3570, contact with food should be avoided where possible. In the case of incidental food contact, the concentration of this product in the food must not exceed 10 parts per million (10mg/kg of foodstuff). In locations and/or applications where local legislation does not specify maximum concentration limits, it is recommended that this same 10 ppm limit be observed, as up to this concentration FF117 Food Chain & Gear Lube Bulk will not impart undesirable taste, odour or colour to food, nor will it cause adverse health effects. Consistent with good manufacturing practice, use only the minimum amount necessary to achieve desired lubrication result and take appropriate corrective action should excessive incidental contact with food be detected.

All ingredients are FDA listed Food Chain & Gear Lube is INS H1 Registered and meets the USDA 1998 H1 guidelines INS Registration No. 1794537

FF172 is also NSF H1 registered and meets the USDA 1998 H1 Guidelines. NSF Registration No.124141 .

This product contains no nut derived or genetically modified ingredients.



LIMITED WARRANTY MDS Europe Ltd makes the Limited Express Warranty that at the date of delivery, this product shall be free from defects in MDS Europe Ltd. materials and workmanship. This limited Express Warranty is in lieu of any other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of MDS Europe Ltd. The sole remedy for breach of the Limited Express Warranty shall be the refund of the purchase price. All other liability is negated and disclaimed, and MDS Europe Ltd. shall not be liable for incidental or consequential damages.

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