



SHELL CASSIDA[®] CHAIN OILS

Chain lubricants for use in food manufacturing machinery

Product Description

Shell Cassida Chain Oil 150 and **1000** are fully synthetic, high performance anti-wear chain oils which have been specially formulated to lubricate drive and transport chains used in the food industry. They are based on a careful blend of synthetic fluids and carefully selected additives chosen for their ability to meet the stringent requirements of the food industry. They are registered by the NSF (Class H1) for use where there is potential for incidental contact with food. These products meet the former requirements (1998) of the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact) and listed in Miscellaneous Publication No. 1419 “List of Proprietary Substances and nonfood Compounds” **Shell Cassida Chain Oil 150** and **1000** contain only substances permitted under US 21 CFR 178.3570, 178.3620 and 182 for use in lubricants with incidental food contact.

Shell Cassida Chain Oil 150 and **1000** do not contain any natural products derived from animals, nuts or genetically modified organisms (GMOs). They are suitable for use where vegetarian and nut-free food is prepared. **Shell Cassida Chain Oils** do not promote the growth of bacteria or fungal organisms.

Applications

- drive and transport chains used in the food industry
- lubrications of equipment used in manufacturing food packaging

Features/Benefits

- helps prevent corrosion and provide wear protection even under wet conditions
- easily applied by brush, baths or automatic lubrication system
- excellent adhesive properties minimize “fling-off”
- neutral odor and taste
- solvent free formulation

Seal and Paint Compatibility

Compatible with the elastomers, gaskets, seals and paints normally used in food machinery lubrication systems.

Specifications and Certificates

- NSF H1
- Kosher
- Halal

Operating Temperatures

- -30°C (-22°F) to +150°C (302°F)

October, 2005

Approvals and Recommendations

- Kronos
- Frigoscandia
- Stork

Incidental Food Contact

Registered by NSF (Class H1) and meet the former USDA H1 guidelines (1998) for lubricants 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 (10 mg/kg of foodstuff). In locations and/or applications where local legislation does not specify maximum concentration limits, this same 10 ppm limit should be observed, as up to this concentration **Shell Cassida Chain Oils** will not impart undesirable taste, odor, or color to food. Consistent with good manufacturing practice, use only the amount necessary to achieve correct lubrication and take appropriate corrective action should excessive incidental contact with food be detected.

Handling and Storage

All food grade lubricants, such as **Shell Cassida Chain Oils**, should be stored separately, out of direct sunlight or other heat sources, from other lubricants, chemical substances and foodstuffs. Store between 0 to 40C. Provided that the product has been stored under these conditions, we recommend the product be used within 5 years from the date of manufacture. Only accept new **Shell Cassida Chain Oil** for use if the manufacturer's seal is intact. Before opening the pack ensure the area around the closure is clean. It is recommended that it be cleaned with **Shell Cassida Fluid PL** or **Shell Cassida Flushing Fluid** and/or potable water before opening. Record the date the seal was broken. To prevent product contamination, always close the package after use. Use the product within 2 years of opening

Typical Properties of Shell Cassida Chain Oils

	Test Method	150	1000
Product Code		5058790 (pail) 5058391 (drum)	5065974 (spray)
NSF Registration No.		92533	92532
Appearance	Visual	Colorless to Pale Yellow	Colorless to Pale Yellow
Viscosity			
@ 40°C, cSt	ISO 3104	150	1000
@ 100°C, cSt	ISO 3104	19.0	80.6
Density at 15°C (kg/l)	ISO 12185	0.846	0.852
Flash Point, COC, °F	ISO 2592	500	510
Pour Point, °F	ISO 3016	-65	-32
Application Temperatures, °C(°F)		-30°C (-22°F) to +150°C (302°F)	-30°C (-22°F) to +150°C (302°F)
Classification ADR			2.5 (spray)
UN-Number			1950 (spray)

Produced according to Shell Quality Standards, in facilities where HACCP audit and Good Manufacturing Practice have been implemented and form part of the quality/environment management system ISO 9001/ ISO 14001.

Handling & Safety Information

As for all oils, prolonged or repeated contact with the skin should be avoided. For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.