

## Solutions for the Edible Oil Processing Industry



**FUCHS**

**CASSIDA**  
FLUID DC 32

Synthetic Direct Contact Fluid

Date of manufacture: 02 / 2017

**22 l / 5,8 ugi Pail**

FUCHS LUBRITECH GmbH  
Werner-Heisenberg-Str. 1 • 67661 Kaiserslautern/Germany  
T +49 6301 3206-0, F -940 • www.fuchs.com/lubritech

**CASSIDA – Food Grade Lubricants**  
NSF 3H, H1, HT1 registered - Kosher & Halal certified - ISO 21469 certified

DE: Synthetischer Getriebschmierstoff mit erweitertem Leistungsvermögen  
NL: Synthetische tandwiel olie met verhoogd prestatieniveau  
FR: Lubrifiant synthétique de haute performance pour réducteurs  
IT: Lubrificante sintetico ad alte prestazioni per ingranaggi  
ES: Lubricante sintético de altas prestaciones para engranajes  
TH: ลิบริกันต์สังเคราะห์ประสิทธิภาพสูง  
RU: Синтетическое редукторное масло с повышенной антифрикционными характеристиками  
PL: Syntetyczny smarół smarowy do przekładni o podwyższonych właściwościach  
ZH: 高性能合成齒油  
TR: Yüksek Performanslı Sentetik Diş Yağı  
PT: Lubrificante sintético de engranagem de alta performance  
HE: מריחת סינטטי לשיניים

Starfood Compound  
Program listed H1  
NSF Reg. No. 148304  
ISO 21469 certified  
C#1234567890

Directions for use: Use only the minimum amount necessary to accomplish the desired technical effect. For Food Plant and other Industrial Use. Remove excess with a clean cloth. Do not add directly to food. This product is to be used by a responsible company representative.

NSF

ISO 21469

Starfood Compound

Program listed H1

NSF Reg. No. 148304

ISO 21469 certified

C#1234567890

Directions for use: Use only the minimum amount necessary to accomplish the desired technical effect. For Food Plant and other Industrial Use. Remove excess with a clean cloth. Do not add directly to food. This product is to be used by a responsible company representative.

ISO 9001

ISO 14001

ISO 45001

PCF

RECYCLED

VEGETARIAN

HALAL

KOSHER

## CASSIDA food grade lubricants – Solutions for the Edible Oil Processing Industry



### CASSIDA food grade lubricants

In the edible oil processing industry, the use of food-safe machine lubricants can mean the difference between a good name and no name at all. The production of edible oil and related products puts the strictest requirements on the lubricants used in the manufacturing process.

Consumer protection is absolutely essential. Incidental and direct oil contamination at any point in the process needs to be avoided by edible oil manufacturers, who process millions of gallons of edible oil for global markets every year. In addition, ensuring that the production process runs smoothly and is highly effective (meaning longer component lifetimes and extended maintenance intervals) is our number one priority.

Our customers benefit from the excellent quality of the CASSIDA portfolio, which has been confirmed by numerous OEM approvals given by well-known manufacturers of production and manufacturing equipment.

Today, major edible oil manufacturers are taking the risk out of their processes by switching to CASSIDA food grade lubricants as the safe alternative for all lubrication points in their production plants.

### Our support package

As well as providing you with high-performance food grade lubricants, FUCHS is able to offer expert technical advice and support. FUCHS can assist with oil condition monitoring, failure analysis and diagnosis, Lubrication Critical Control Point (LCCP) surveys, and much more.

### Performance and safety

The CASSIDA range is NSF H1 registered, as well as being the first food grade lubricant range to receive ISO 21469 certification. Certified for Halal and Kosher production, the CASSIDA range provides a total solution for the edible oil processing industry.

NSF H1 registered  
ISO certified



Nonfood Compounds  
Program Listed  
ISO 21469 certified

Kosher certified

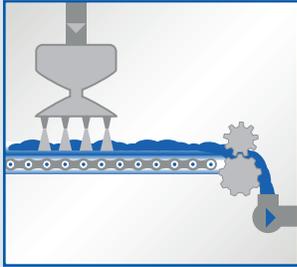


Halal certified

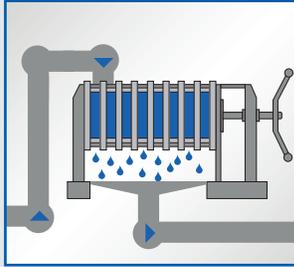


## Basic Process Chart

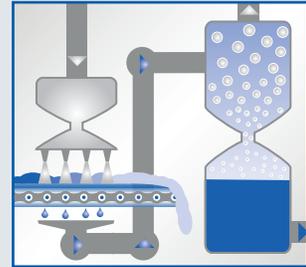
1. Cleaning, grinding, sterilizing, drying



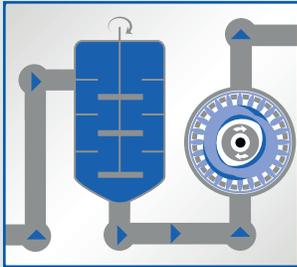
2. Pressing



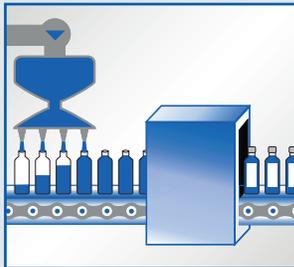
2A. Solvent extraction



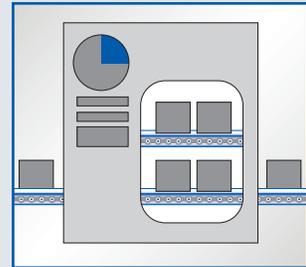
3. Refining: Neutralising, degumming, bleaching, deodorising



4. Filling, labelling



5. Packing, palletizing, storage



## Overview of CASSIDA Products

Process Steps	Main Products	Common Machine Parts	Process Example
<b>1. Cleaning, grinding, sterilizing, drying</b>	CASSIDA FLUID GL or PAG Series	Gearboxes	
	CASSIDA CHAIN OIL Series	Chains, conveyors	
	CASSIDA GREASE EPS 2 / FM GREASE CSC EP Series / FM GREASE 2	Bearings	
	CASSIDA FLUID CR Series	Compressors, blowers	
	CASSIDA FLUID CRE 46	Compressors	
	CASSIDA FLUID HF Series	Hydraulics	
<b>2. Pressing</b>	CASSIDA FLUID GL or PAG Series	Gearboxes	
	CASSIDA CHAIN OIL Series	Chains, conveyors	
	CASSIDA FLUID HF Series	Hydraulics	
	CASSIDA GREASE EPS 2 / FM GREASE CSC EP Series / FM GREASE 2	Bearings	
<b>2A. Solvent extraction</b>	CASSIDA FM HEAT TRANSFER FLUID 32	Heat transfer system	
	CASSIDA FLUID GL or PAG Series	Gearboxes	
	CASSIDA GREASE EPS 2 / FM GREASE CSC EP Series	Bearings	
	CASSIDA GREASE FC Series	Bearings exposed to solvent	
	CASSIDA CHAIN OIL Series	Chains, conveyors	
	CASSIDA FLUID DC Series	Solvent absorption	
<b>3. Refining: neutralizing, degumming, bleaching, deodorizing</b>	FM HEAT TRANSFER FLUID 32	Heat transfer system	
	CASSIDA FLUID GL or PAG Series	Gearboxes	
	CASSIDA GREASE EPS 2 / FM GREASE CSC EP Series	Bearings	
	CASSIDA GREASE FC Series	Bearings exposed to chemicals	
	CASSIDA FLUID HF Series	Hydraulics	
<b>4. Filling</b>	CASSIDA FLUID GL or PAG Series	Gearboxes	
	CASSIDA FLUID HF Series	Hydraulics	
	CASSIDA GREASE EPS / RLS Series	Bearings, filling machine	Filling area
	CASSIDA GREASE HTS 2 / FM GREASE CSC EP Series	Bearings, filling machine	
	CASSIDA CHAIN OIL Series	Chains	
<b>4. Labelling</b>	CASSIDA GREASE EPS 2 / FM GREASE CSC EP Series	Bearings	
	CASSIDA GREASE RLS 00, GTS 2	Central lubrication system	
	CASSIDA FLUID GL or PAG Series	Gearboxes	Packaging, labelling, paperboard packing
	CASSIDA CHAIN OIL Series	Drive chains	
	CASSIDA FLUID HF 46, 68, 100 or GL 150	Hydraulics	
	CASSIDA FLUID VP 100	Vacuum pump	
<b>5., 6. Packing, palletizing, storage</b>	CASSIDA FLUID RF Series	Refrigeration compressors	
	CASSIDA GREASE EPS / RLS Series	Bearings	
	CASSIDA FLUID HF / HFS / GL Series	Hydraulics, gearboxes	
	CASSIDA CHAIN OIL Series	Chains, conveyors	
<b>General maintenance</b>	FM KRYSTALL		
	CASSIDA SILICONE FLUID SPRAY		

## FUCHS LUBRICANTS CO. – SPECIAL APPLICATION LUBRICANTS

Since 1931, we have been pursuing the same goal: to keep the world moving. With innovative and technological lubricant solutions that have a sustainable impact on the future. Unconditional reliability is our top priority, it is the foundation of our company and the basis for everything that defines us.

Reliability is both a driver and a demand. And it's a promise to all our customers in the fields of automotive suppliers and OEMs, mechanical engineering, metal processing, mining and exploration, aerospace, energy, construction and transport, agriculture and forestry, as well as the paper, steel, metal, cement, forging and food industries, but also qualified lubricant dealers, car dealerships and workshops.

Long-term experience, high development strength and the fulfillment of far-reaching standards are the basis for the special quality of our world-leading product brands. We deliver solutions that are simply more efficient and therefore more sustainable. We always think in holistic solutions. For the development of individual solutions, we enter into an intensive customer dialog with you. This is the way we live up to our claim of moving your world.

## Innovative lubricants need experienced applications engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then the best lubricant system can be selected. Experienced FUCHS engineers will be glad to advise on products for the application in question and also on our full range of lubricants.



Contact:



**FUCHS LUBRICANTS CO.**  
17050 Lathrop Avenue  
Harvey, IL 60426  
United States  
Phone + 1 708-333-8900  
E-mail [inquiry@fuchs.com](mailto:inquiry@fuchs.com)  
[www.fuchs.com/us](http://www.fuchs.com/us)

**FUCHS LUBRICANTS CANADA LTD.**  
(Eastern Division)  
405 Dobbie Drive  
Cambridge, Ontario  
N1R 5X9  
Canada  
Phone +1 519-622-2040  
E-mail [inquiry@fuchs.com](mailto:inquiry@fuchs.com)  
[www.fuchs.com/ca](http://www.fuchs.com/ca)

**FUCHS LUBRICANTS CANADA LTD.**  
(Western Division)  
19829 99A Avenue  
Langley, British Columbia  
V1M 3G4  
Canada  
Phone +1 604-888-1552  
E-mail [inquiry@fuchs.com](mailto:inquiry@fuchs.com)  
[www.fuchs.com/ca](http://www.fuchs.com/ca)

**LUBRICANTES**  
**FUCHS DE MÉXICO SA DE CV**  
Acceso C No. 101  
Parque Industrial Jurica  
76120 Querétaro, Qro.  
Mexico  
Phone + 52 (442) 2 38 91-00  
E-mail [info@fuchs.com.mx](mailto:info@fuchs.com.mx)  
[www.fuchs.com/mx](http://www.fuchs.com/mx)