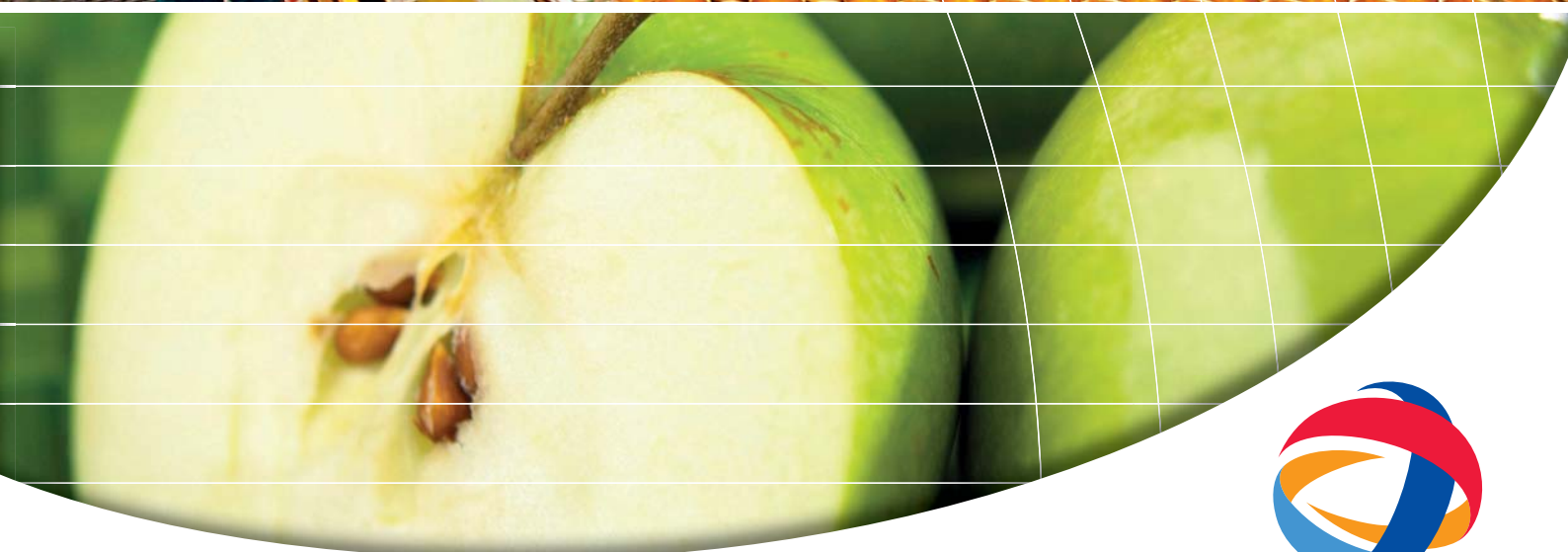
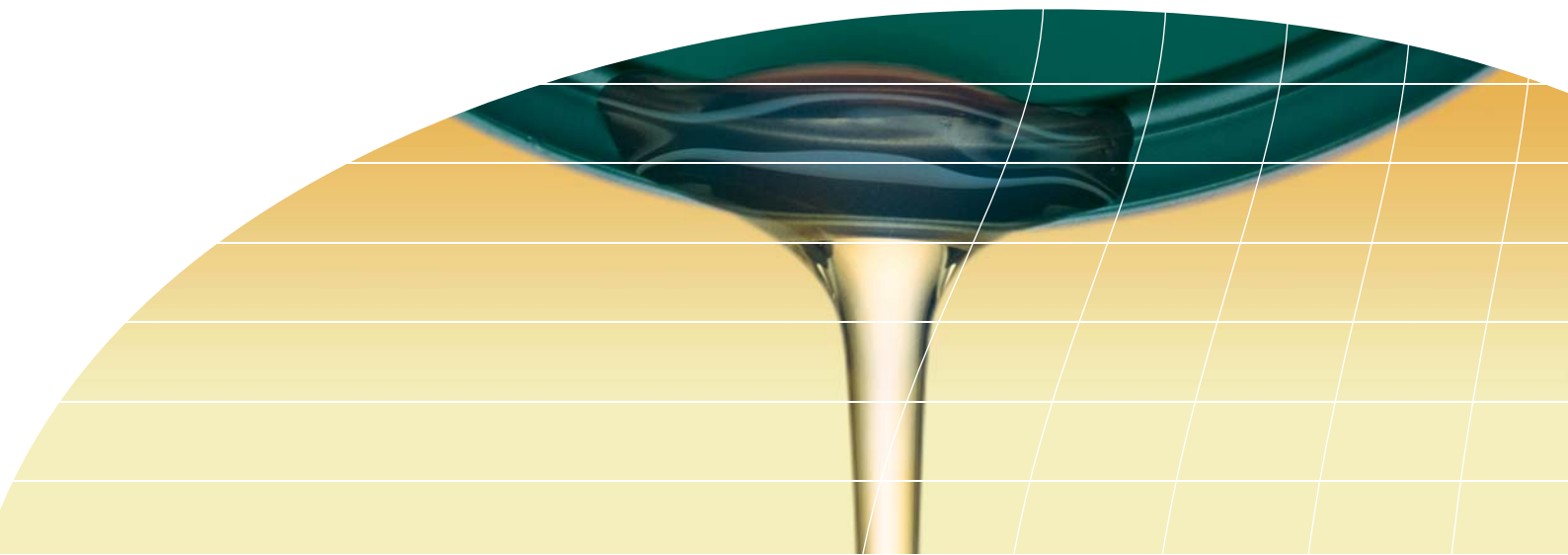


# Food processing industry

Your production is secure with NEVASTANE lubricants



**TOTAL**

## Food safety: no worries!

**Guaranteeing food safety to consumers is paramount for today's food processors.**

**With this challenge in mind, Total Lubrifiants has developed NEVASTANE, a full range of NSF H1 registered lubricants designed for use when incidental contact with food is possible.**

**Using these products instead of traditional products allows you to avoid serious consequences for both the consumer and your brand image, in the event the lubricant comes into contact with the food accidentally. Use NEVASTANE with complete peace of mind!**

### ■ A NEVASTANE lubricant for every application and situation!

Efficient in every food processing application, the NEVASTANE range protects your equipment while extending its service life under the most difficult conditions: wide ranges of temperature, water and food exposure...

### ■ NEVASTANE guarantees at a glance

- registered NSF H1
- contain no compound of animal origin
- GMO free
- allergen free



### ■ A guarantee of additional safety: ISO 21469 certification

This voluntary certification demonstrates the commitment of Total Lubrifiants to provide you a maximum number of guarantees.

Our food grade lubricant production plants are audited by an independent organisation that verifies that our production process and finished products meet or exceed the requirements of ISO 21469 certification.

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### RECOMMENDATIONS FOR USE

- Store the NSF H1 lubricants in a separate and well-identified area.
- Flush your equipment with the food grade suitable product before converting to NSF H1 lubricant for the first time (contact us).
- Label your transfer containers and dispensing equipment in order to avoid any potential cross contamination.

# A RANGE THAT COVERS EVERY



## Oils

	Type	Applications	Specific advantages	ISO VG	Specifications
<b>NEVASTANE AW</b>	<b>Hydraulic</b> oil based on white medicinal oil	<ul style="list-style-type: none"> <li>Hydraulic systems</li> <li>Air-line lubricators</li> </ul>	<ul style="list-style-type: none"> <li>Excellent anti-wear and corrosion protection</li> <li>Miscible with mineral fluids</li> </ul>	22 to 68	NSF H1 Kosher  ISO 6743-4 HM
<b>NEVASTANE SL (32 to 100)</b>	<b>Compressors and pneumatic</b> oils Synthetic PAO	<ul style="list-style-type: none"> <li>Air compressors</li> <li>Vacuum pumps</li> <li>Hydraulic systems and especially those operating at low temperatures</li> </ul>	<ul style="list-style-type: none"> <li>100% synthetic</li> <li>Wide temperature range</li> <li>Significant extension of oil drain intervals</li> </ul>	32 to 100	NSF H1 Kosher  ISO 6743-4 HV
<b>NEVASTANE EP</b>	<b>Gear</b> oil based on white medicinal oil	<ul style="list-style-type: none"> <li>Reduction gears</li> <li>Plain and roller bearings</li> <li>Conveyor belts and chains</li> </ul>	<ul style="list-style-type: none"> <li>Superior protection against high loads</li> <li>Adapted to a wide range of applications</li> </ul>	100 to 1000	NSF H1 Kosher  ISO 6743-6 CKC
<b>NEVASTANE SL (100 to 460)</b>	<b>Gear</b> oil Synthetic PAO	<ul style="list-style-type: none"> <li>Reduction gears</li> <li>Plain and roller bearings</li> <li>Conveyor belts and chains</li> </ul>	<ul style="list-style-type: none"> <li>100% synthetic</li> <li>Wide temperature range</li> <li>Significant extension of oil drain intervals</li> </ul>	100 to 460	NSF H1 Kosher  ISO 6743-6 CKC
<b>NEVASTANE SY</b>	<b>Gear</b> oil Synthetic PAG	<ul style="list-style-type: none"> <li>Worm gears and reducers</li> <li>High temperature oven chains</li> <li>Bottling equipment</li> </ul>	<ul style="list-style-type: none"> <li>Excellent thermal stability</li> <li>Excellent resistance to water</li> <li>Superior extreme pressure characteristics</li> </ul> <p><i>NB: Not miscible with other mineral and synthetic oils</i></p>	220 to 460	NSF H1 Kosher
<b>Specific products</b>					
<b>NEVASTANE FLUSH OIL</b>	Light viscosity fluid for cleaning and flushing	<ul style="list-style-type: none"> <li>Cleaning or flushing of hydraulics, gear reducers, chains and other moving components</li> </ul>	<ul style="list-style-type: none"> <li>Elimination of deposits and impurities</li> <li>Excellent solvent power</li> <li>Ideal for changing from standard lubricant to NSF H1 lubricant (except PAG and MPG)</li> </ul>	9.5	NSF H1 Kosher
<b>NEVASTANE SDO</b>	Sugar dissolving oil	<ul style="list-style-type: none"> <li>Dissolves sugar accumulated on equipment in production and packaging areas</li> <li>Application in pure or diluted form</li> </ul>	<ul style="list-style-type: none"> <li>Excellent for dissolving accumulated sugar on machine parts</li> <li>Reduction of maintenance costs and shutdowns</li> </ul>	-	NSF H1 Kosher
<b>NEVASTANE ANTIFREEZE</b>	MPG based antifreeze	<ul style="list-style-type: none"> <li>Cooling circuits, including drinks, ice creams and frozen food processing</li> </ul>	<ul style="list-style-type: none"> <li>Specific protection of alloys and metal equipment against corrosion</li> </ul>	-	NSF HT1
<b>NEVASTANE HTF</b>	White oil based heat transfer fluid	<ul style="list-style-type: none"> <li>Closed heat transfer circuits, airless</li> <li>A large number of fabrication processes: double-boilers, autoclaves, reactors, ovens, presses and moulds</li> </ul>	<ul style="list-style-type: none"> <li>Exceptional resistance to temperature</li> <li>Process temperature &lt;300 °C (330 °C in the oil film)</li> <li>Long service life under severe conditions of use</li> </ul>	32	NSF HT1  ISO 6743-12 L-QB

# FOOD PROCESSING APPLICATION



## Greases

	Type	Applications	Specific advantages	NLGI Grade	Thickener	Range of use	Specifications
<b>NEVASTANE HT/AW</b>	Multi purpose grease	<ul style="list-style-type: none"> <li>• Roller and plain bearings</li> <li>• Crimping machines</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent protection against corrosion</li> <li>• Resistance to water</li> </ul>	00 0 1 2	Complex Al	-20 °C to +150 °C	NSF H1 Kosher
<b>NEVASTANE HD2T</b>	Multi purpose extreme pressure, tacky grease with PTFE	<ul style="list-style-type: none"> <li>• Loaded bearings even in the presence of water</li> <li>• Bottling machines</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional adhesion to metal surfaces</li> <li>• Excellent resistance to water washout</li> <li>• Superior extreme pressure characteristics</li> </ul>	2	Complex Al	-20 °C to +150 °C	NSF H1 Kosher
<b>NEVASTANE HPX</b>	High performance extreme pressure grease	<ul style="list-style-type: none"> <li>• Bearings under loads and subject to shocks</li> <li>• Pelleting machines</li> </ul>	<ul style="list-style-type: none"> <li>• Wide temperature range</li> <li>• Excellent resistance to water</li> <li>• Superior extreme pressure characteristics</li> </ul>	1/2	Complex Ca sulfonate	-25 °C to +180 °C	NSF H1
<b>NEVASTANE SFG</b>	Synthetic grease adapted to a wide range of temperatures	<ul style="list-style-type: none"> <li>• Bearings under high and low temperatures</li> <li>• Sterilizers</li> <li>• Bearings in ovens</li> <li>• Freezing tunnels</li> </ul>	<ul style="list-style-type: none"> <li>• Very wide temperature range</li> <li>• Excellent resistance to water</li> <li>• Significant extension of lubrication intervals</li> </ul>	1 2	Complex Ca sulfonate	-40 °C to +180 °C	NSF H1 Kosher



## Aerosols

	Type	Applications	Specific advantages	Range of use	Specifications
<b>NEVASTANE LUBE AEROSOL</b>	Multi purpose adhesive oil	<ul style="list-style-type: none"> <li>• Small machines requiring almost daily lubrication</li> <li>• Conveyors and rails</li> <li>• Packaging machines</li> </ul>	<ul style="list-style-type: none"> <li>• Exceptional adhesion to metal surfaces</li> <li>• Resistant to water, steam and weak acid and alkaline atmospheres</li> </ul>	-20 °C to +150 °C	NSF H1
<b>NEVASTANE GREASE AEROSOL</b>	Water resistant grease	<ul style="list-style-type: none"> <li>• Bearings, hinges, springs, chains, rails and tools</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent resistance to water and steam</li> <li>• Exceptional adhesion to metal surfaces</li> <li>• Insensitive to detergents</li> </ul>	-20 °C to +150 °C	NSF H1
<b>NEVASTANE SILICONE SAFEGARD</b>	Silicone oil	<ul style="list-style-type: none"> <li>• Small machines and chains subject to extreme temperatures</li> <li>• Shrink oven chains</li> <li>• Conveyors and rails</li> </ul>	<ul style="list-style-type: none"> <li>• Very wide temperature range</li> <li>• Insulating, anti-rust and anti-corrosion</li> <li>• Spray without propellant gas (Safeguard technology), for environmental protection</li> </ul>	-40 °C to +200 °C	NSF H1 Kosher



# Value-added services: we provide you support



Now more than ever, industrial companies are convinced of the need to use NSF H1 lubricants, but many wonder how they should be implemented and used in the various processing areas.

We can guide you through the entire conversion process helping to achieve your food safety objectives while reducing your production costs through continuous optimization.

## Diagnose the risks of lubricant contamination

In the framework of their HACCP\* programs, all food processing plants have to control the risk of contamination of their products. Our technical managers will help you to perform your lubrication diagnostics on site:

- **identify** all critical lubrication points,
- **select** the appropriate NEVASTANE product to meet the performance requirements of your applications,
- **ensure** that all conversion and implementation is performed correctly.

\*HACCP: Hazard Analysis Critical Control Points

## Optimize your maintenance with the TIG XP5 FOOD software



Total Lubrifiants has developed the TIG XP5 FOOD software to manage the lubrication and maintenance of your facilities. TIG XP5 FOOD helps you to:

- **plan** preventive maintenance operations,
- **manage** oil analyses and predictive maintenance,
- **control** critical lubrication points in the framework of the HACCP procedure,
- **reference** the documents and certificates required for food safety audits.

## Monitor your equipment through in-service oils analysis

The expertise of our laboratories enables, through sampling of in-service oils, to:

- **monitor** the mechanical condition of your machines without dismantling or shutdown,
- **reduce** operating costs by decreasing breakdowns and production stops,
- **lengthen** oil drain intervals.

## Train your teams

Total Lubrifiants offers training sessions dedicated to your sector of activity, on controlling lubrication, safety and the environment. A lubricant used under the best conditions enhances the performance and the equipment life cycle, securing your facilities, and protecting human health and the environment.

# 4 reasons to choose NEVASTANE

## A major player

Total Lubrificants is a subsidiary of the Total group. The Group is the world's fourth largest integrated oil and gas company\* and employs around 96,000 people in the five continents. Total Lubrificants produces and markets under the TOTAL brand in more than 160 countries. NEVASTANE is the brand of lubricants dedicated to the food processing industries.

## Innovation

With its major investments in R&D and close collaboration with food processing equipment manufacturers, Total Lubrificants has developed its cutting edge, value added NEVASTANE products, and is constantly researching to satisfy your future needs.

NSF registration certificates available at [www.nsf.com](http://www.nsf.com)  
Material Safety Data Sheets available at [www.quickfds.com](http://www.quickfds.com)

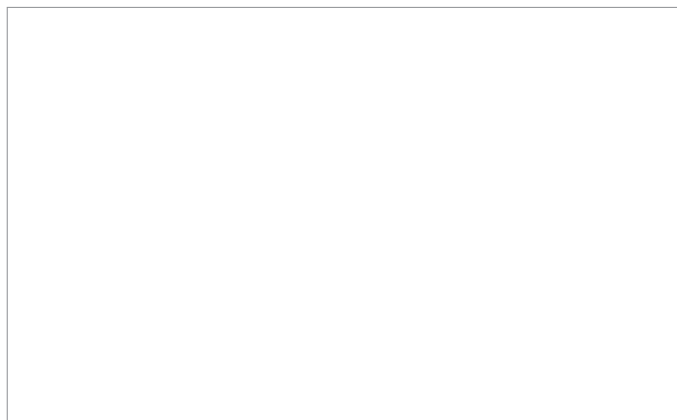
## Food safety

Total Lubrificants' ISO 21469 certification for the production of the NEVASTANE range is an additional guarantee of our long term commitment to food safety.

## Partnership

When choosing NEVASTANE, you know you have found a partner that will stand by you to ensure the safety of your food production while optimizing your productivity and maintenance costs. The large variety of NEVASTANE ranges allows you to cover all your needs for maintenance and specialty lubricants.

*\*based on market capitalization in dollars at June 30, 2008.*



[www.lubricants.total.com](http://www.lubricants.total.com)  
[www.nevastane.com](http://www.nevastane.com)



The right choice in lubricants

**TOTAL**