

# PROTEAN

Essential Nutrition for Industry



**TYGRIS™**  
Cleaning Lubricating Protecting

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY

# PROTEAN

*adjective* [**proh**-tee-n, proh-**teen**]

**...versatile, flexible, adaptable**

*definition*

**"Displaying  
great diversity  
or variety..."**

# Welcome to PROTEAN...

## ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY

**PROTEAN**, essential nutrition for industry, is the latest product range to be launched by TYGRIS and the successful culmination of 18 months intense focus and commitment, extensive research & development, significant end-user engagement and a determination to overcome even the most challenging of obstacles.

Just as we need to maintain our own health by providing our bodies with essential nutrients, every food and drink manufacturer is also required to keep their machinery running smoothly and in optimum health.

Here at TYGRIS, we looked carefully at existing food grade products available in the marketplace and spent time to research and develop a superior new range of advanced solutions. Thus PROTEAN was born.

Our dynamic range of advanced solutions for the food industry epitomises the meaning of PROTEAN in every true sense... versatile, flexible, adaptable – be it a lubricant for high or low temperatures; for use with fast or slow moving machinery or simply available in a variety of sizes.

All our products are NSF/InS registered, with many products also Halal and Kosher certified. Our sincere thanks go out to each authorising body for their guidance and invaluable support throughout the registration process.



In addition to the TYGRIS 4Life Guarantee on every PROTEAN product, such approvals provide peace of mind to both TYGRIS distributors and end-users alike, and confirms that our products are only manufactured from FDA listed ingredients which are free from animal derived materials, nut oils, soya, dairy and genetically modified ingredients.

**Choose PROTEAN for all your essential Cleaning, Lubricating and Protecting needs and let's stay healthy together.**

*"If we were healthcare professionals, we'd prescribe PROTEAN"*



Serving the essential Cleaning, Lubricating and Protecting needs of Industry since 1971, TYGRIS is a trusted and established source of industrial and food grade lubricants and cleaners, commodity and precision aerosols, VariSpray paints and protective coatings, spill control, industrial hand wipes and much, much more...

TYGRIS prides itself on the quality of its products and services, the dedication and expertise of its customer-centric team and its close working relationship with TYGRIS distributors and end-users alike.

From the renowned TYGRIS 4Life Guarantee to the TYGRIS Sample Order Service, and from TYGRIS Awareness product training to accompanied end-user visits, there's never been a better time to choose TYGRIS!

**Make TYGRIS your #1 choice for all your Cleaning, Lubricating and Protecting needs!**

There is a **better way...**

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# 1. BEARING LUBRICANTS

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## ALS+

### Semi-fluid grease for automated lubrication systems

PROTEAN ALS+ is a fully synthetic, semi-fluid, high performance grease, engineered for automatic lubrication systems (ALS) where H1 lubricants are required within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Ideal for use on equipment that has been fitted with small bore pipework and/or fitted with long pipe runs, PROTEAN ALS+ is also suitable for use with a variety of INTERLUBE equipment.

#### BENEFITS

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- White appearance provides greater visibility for monitoring lubricant dispensation
- Provides a tenacious EP film – offering resistance to water wash off and effective corrosion prevention
- Proven stability extends lubrication intervals and reduces usage
- Does not contain mineral oil, animal derived materials, nut oils or genetically modified materials
- All ingredients are FDA listed
- Temperature range -20°C to +150°C

TF4018 18KG



## Energise NG2

### Next generation grease for demanding applications

PROTEAN Energise NG2 is a NSF: H1 registered, next generation lubricant, designed for the most demanding of applications within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. This cutting-edge over-based calcium sulphonate grease outperforms all other food grade greases and is enriched with anti-oxidants, EP and anti-wear additives.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Superior load and wear protection for extended machine life
- Exhibits excellent EP performance with a 4 ball weld load of 620kg
- Highly water resistant and offers excellent protection against rust
- Performs well under water ingress over extended periods of time
- Temperature range -20°C to +150°C

TF5804 400G

TF5830 3KG

TF5818 18KG



## AquaLoad

### Highly versatile water resistant EP grease

PROTEAN AquaLoad is a NSF: H1 registered, highly versatile grease, developed to resist extreme water wash off and heavy loads. Characterized by an exceptional high dropping point, high load carrying performance, reduced wear and excellent resistance to water and corrosion, PROTEAN AquaLoad, in many ways, outperforms other premium water resistant greases. Designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication. PROTEAN AquaLoad is best suited for low to medium speed bearings operating under adverse conditions. **Halal/Kosher Certified.**

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Superior performance, particularly in the presence of water
- High dropping point, typically in excess of 280°C
- Excellent EP and AW properties
- Exceptional mobility and torque at temperatures down to -40°C
- Excellent thermal and oxidation stability
- Temperature range -40°C to +160°C

TF4204 400G

TF4230 3KG

TF4218 18KG



## High Temp (HT) 2

### High temperature, hard wearing grease

PROTEAN High Temp 2 is a high temperature resistant, food grade grease which contains PTFE anti-wear and other additives. Suitable for use in bearings and on sliding surfaces, with resistance to a wide range of cleaning chemicals. **Halal/Kosher Certified.**

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Provides long term lubrication
- Carbon deposits are reduced
- High resistance to corrosive contaminants
- Good sealing properties
- PTFE lubricant adds anti-wear performance
- Compatible with most seals
- Does not contain genetically modified ingredients, nut oil or derivatives
- Temperature range -20°C to +220°C

TF8204 400G

TF8230 3KG



## MOLY Extreme

Premium plus, highly versatile grease

PROTEAN MOLY Extreme is a NSF: H2, non-carbonising, tenacious lubricant that evaporates slowly at high temperatures. Specially formulated with Molybdenum disulphide, PROTEAN MOLY Extreme is designed for the effective lubrication of bearings (plain and anti-friction) running at less than 300 rpm, and operating at temperatures in excess of 180°C.

### BENEFITS:

- NSF: H2 registered (for use in and around food processing areas where there is no possibility of food contact)
- Excellent high temperature resistance
- Slow evaporation rates at high temperatures with minimal deposit formation
- Protective film of molybdenum disulphide helps increase component life
- For use only with high temperatures applications running at less than 300 rpm
- Temperature range +180°C to +300°C

TF4630 3KG



## Optimum 2

Premium plus versatile grease for demanding applications

PROTEAN Optimum 2 is a highly versatile, NSF: H1 registered, PFPE-based lubricant, offering a unique combination of exceptionally high and low temperature performance, chemical inertness and high load carrying capacity to satisfy even the most demanding lubrication needs. PROTEAN Optimum 2 significantly reduces wear to increase service life of critical components that operate under extreme circumstances, hard to relubricate or require long life lubrication.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- For lifetime lubrication of bearings, chains, slides and other machine parts used in environments where conditions prevent the use of conventional greases.
- Good oxidation stability ensures prolonged lubrication intervals at high temperatures
- Exceptional low levels of carbonisation at high operating temperatures extend component life
- Extreme resistance to chemicals and suitable in the presence of oxygen
- Anti-wear additives protect and prolong component life
- Temperature range -25°C to +280°C

TF4705 1KG

TF4730 6KG



## Optimum 00

Premium plus, chemical resistant, lifelong lubricant

PROTEAN Optimum 00 is a highly versatile, NSF: H1 registered, PFPE-based lubricant, offering a unique combination of exceptionally high and low temperature performance, chemical inertness and high load carrying capacity to satisfy even the most demanding lubrication needs. PROTEAN Optimum 00 significantly reduces wear to increase service life of critical components that operate under extreme circumstances, or are hard to relubricate and require long life lubrication.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- For lifetime lubrication of bearings, chains, slides and other machine parts used in environments where conditions prevent the use of conventional greases.
- Good oxidation stability ensures prolonged lubrication intervals at high temperatures
- Exceptional low levels of carbonisation at high operating temperatures help extend component life
- Extreme resistance to chemicals and suitable in the presence of oxygen
- Exhibits excellent EP performance with a 4 ball weld load of 500kg
- Temperature range -25°C to +280°C

TF4104 800G



## Premium EP2

Superior performance water resistant EP grease

PROTEAN Premium EP2 is a NSF: H1 registered, highly versatile grease, developed to resist extreme water wash off and heavy loads. Characterized by an exceptional high dropping point, high load carrying performance, reduced wear and excellent resistance to water and corrosion, PROTEAN Premium EP2, outperforms other premium water resistant greases on several levels, and is best suited for low to medium speed bearings operating under adverse conditions.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Superior mechanical stability, particularly in the presence of heat and water
- Designed to provide superior performance at elevated temperatures and during periods of infrequent lubrication
- Exhibits excellent EP performance with a 4 ball weld load of 700kg
- Excellent mobility and torque at temperatures, even at sub zero (down to -40°C)
- Specially formulated for enhanced resistance to water
- Life performance up to four times that of a regular mineral oil based grease
- Temperature range -40°C to +165°C

TF5704 400G

TF5730 3KG

TF5718 18KG





## PTFE Multi Lube

### Multi-purpose lubricant with PTFE

PROTEAN PTFE Multi Lube is a H1 registered, food grade multipurpose lubricant enriched with PTFE, developed as a penetrating and de-watering lubricant and ideal for use on bearings, chains and slides.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Good anti-wear properties
- Good de-watering properties
- Excellent penetration
- Long life lubricating film with PTFE
- Excellent corrosion protection
- Does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients, FDA listed ingredients under 21 CFR 178.3570
- Temperature range -50°C to 180°C

TF8605 500ML

TF8650 5L

TF8625 25L



## 3H1 Grease (Spray)

### High performance direct contact grease

PROTEAN 3H1 Grease (Spray) is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease (Spray) prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

F430 400ML



## 3H1 Grease

### High performance direct contact grease

PROTEAN 3H1 Grease is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable. **Halal/Kosher Certified.**

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

TF3004 400G

TF3005 500G

TF3030 3KG

TF3018 18KG



## Ultra EPG

### Versatile, highly adhesive EP grease

PROTEAN Ultra EPG is a NSF: H1, highly adhesive, non-toxic lubricant designed for the effective lubrication of slides, cams, gears, O rings and plain bearings, demonstrating excellent high load, EP performance where a highly tenacious lubricant is essential. Ideal for fast moving linear applications where conventional lubricants are pushed off the operating surfaces, PROTEAN Ultra EPG is highly resistant to water wash-off and provides excellent corrosion protection for a wide variety of applications commonly found within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Provides a tenacious, highly adhesive, long lasting film
- Highly resistant to water wash-off and offers excellent corrosion protection
- Exhibits excellent EP performance with a 4 ball weld load of 250 kg
- Does not contain mineral oil, animal derived materials, nut oils or genetically modified materials
- Temperature range -15°C to +160°C

TF4304 400G

TF4330 3KG

TF4318 18KG



## Classic 0 / 2

Versatile, high performance bearing grease

PROTEAN Classic is a NSF: H1 registered multi-purpose grease for use across wide-ranging applications within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. A soft, true all-round grease enhanced with extreme pressure and anti-wear additives, PROTEAN Classic performs well in wet and saturated environments, under extreme temperature ranges and with heavy load applications.

### BENEFITS

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Available in NLGI 0 and 2 (other grades available upon request)
- Diverse performance attributes make it the go-to grease for most food safe applications
- Ideal for lubrication and protection of bearings (plain/anti-friction) and sliding surfaces
- Provides long term lubrication at high temperatures, extending lubrication intervals
- Excellent anti-wear performance prolongs component life
- Exceptional degree of water resistance providing lasting lubrication and protection against corrosion
- Temperature range (PROTEAN Classic 0) -50°C to +165°C
- Temperature range (PROTEAN Classic 2) -50°C to +170°C

PROTEAN Classic 0	TF4530	3KG	
	TF4518	18KG	
PROTEAN Classic 2	TF4404	400G	Halal/ Kosher Certified
	TF4430	3KG	
	TF4418	18KG	



## White Grease

Multi-purpose economical lubricant

PROTEAN White Grease is an aluminium complex thickened lubricating grease based on pharmaceutical white oils. The grease contains antioxidants and EP/AW additives. The thickener, together with the special base oil, makes the product suitable for lubrication in applications where there is the possibility of incidental or accidental food contact. Suitable for a variety of bearing applications including heavy load conditions.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Good oxidation stability
- Excellent load carrying capacity
- Does not contain genetically modified ingredients, nut oil or derivatives
- Temperature range -25°C to +110°C

TF8304 400G



## White Grease Extreme

Superior lubricant for demanding applications

PROTEAN White Grease Extreme is a NSF: H1 registered versatile food grade lubricant, designed for use on bearings and sliding surfaces. Containing extreme pressure and anti-wear additives with PTFE, it is suitable for environments with extremes of temperature and wet conditions and in heavily loaded situations in the presence of dust and other contaminants.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Extreme pressure and anti-wear additives
- Covers a wide range of applications for standardisation
- Long term lubrication at temperatures of up to 165°C
- Resistant to water
- Protects from dust and other contaminants
- Corrosion resistant
- Does not contain genetically modified ingredients, nut oil or derivatives
- Temperature range -50°C to +170°C

TF8104 400G

TF8130 3KG

TF8118 18KG



## White Grease Spray

Water resistant white grease

PROTEAN White Grease Spray is a NSF: H1 registered spray-formulated water resistant lubricant, ideal for use on roller and needle bearings and chains.

### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Contains anti-wear additives for long component life
- Water resistant – suitable where frequent washing down of equipment is required
- Corrosion resistant
- Effective to high temperatures
- Temperature range: -20°C to +200°C
- 360° valve for inverted use

F402 400ML

# TYGRIS™

Cleaning Lubricating Protecting

Aerosols  
Cleaners  
Food Grade  
Greases & Oils  
Hand Wipes  
Industrial Grade  
Paints & Primers  
Precision Grade  
Protective Coatings  
Spill Control



There is a better way... *Think TYGRIS!*

[www.tygrisindustrial.com](http://www.tygrisindustrial.com)

# 2. CHAIN & GEAR LUBRICANTS

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## 100% Proof

### High temperature lubricant for bakery oven chains

PROTEAN 100% Proof is a NSF: H1 registered, fully synthetic lubricant designed for the effective lubrication of bakery oven chains operating continuously at high temperatures of up to 300°C, offering superior performance and long fluid life for optimum lubricant economy.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Longer wet film life provides optimum lubricant economy
- Excellent load and anti-wear properties
- Does not form hard carbon deposits
- Temperature range -20°C to +300°C

**TF4825 25L**



## 100% Proof VHT

### High temperature graphited lubricant for bakery oven chains

PROTEAN 100% Proof VHT is a fully synthetic, graphited dry film lubricant designed for the effective lubrication of bakery oven chains operating at extreme temperatures of up to 550°C, or in high temperature environments where wet lubricants are unsuitable.

**BENEFITS**

- NSF H2 registration pending (for use in and around food processing areas where there is no possibility of food contact)
- Ideal for high load / high temp applications
- Effective water resistance and corrosion prevention
- Very low carbon build-up
- Low odour, low volatility
- Temperature range -10°C to +225°C (fluid) -10°C to +550°C (dry film)

**TF5025 25L**



## 100% Proof H2O

### High temperature, water based, graphited lubricant for chains and conveyors

PROTEAN 100% Proof H2O is a water based, graphited dry film lubricant designed for the effective lubrication of bakery oven chains operating continuously at very high temperatures of up to 550°C, or in high temperature environments where wet lubricants are unsuitable.

**BENEFITS:**

- NSF H2 registration pending (for use in and around food processing areas where there is no possibility of food contact)
- Ideal for high load / high temp applications
- Rapid penetration to the links and pins reducing wear and extending chain life
- Non-carbonising
- Non-flammable, non-combustible
- Low odour, non-toxic
- Temperature range up to +550°C (dry film)

**TF4925 25L**



## Chain Fluid LT

### Low temperature chain fluid for optimum efficiency

PROTEAN Chain Fluid LT is a NSF: H1 registered, premium fully synthetic oil designed for the effective lubrication of slow moving conveyor chains within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Engineered for the lubrication of chains and bearings running continuously at low temperatures down to -40°C, this antioxidant-rich oil offers long wet film life for optimum lubricant economy. **Halal/Kosher Certified.**

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Long wet film life provides optimum lubricant economy
- Proven load and anti-wear performance
- Does not form hard carbon deposits
- Temperature range -45°C to +150°C

**TF5405 5L**

**TF5425 25L**

**TF5499 205L**



## Chain 150 VHT

### Very high temperature chain fluid

PROTEAN Chain 150 VHT is a NSF: H1 registered, premium fully synthetic oil designed for the effective lubrication of all types of conveyor and drive chains within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Designed for the lubrication of chains running continuously at very high temperatures of up to 300°C, this antioxidant-rich oil offers extremely good thermal stability combined with proven anti-wear, EP and corrosion prevention for improved performance.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Long fluid life at high temperatures provides optimum lubricant economy
- Excellent penetration thus reducing wear and extending chain life
- Low evaporation rates and longer wet film life
- Does not form hard carbon deposits
- Excellent thermal stability
- Suitable for use on bakery ovens, drying machines and textile stenters
- Temperature range -20°C to +300°C

TF5225 25L

TF5299 205L



## Chain & Gear

### Fully synthetic chain and gear oil

PROTEAN Chain & Gear is an NSF: H1 registered, fully synthetic oil designed for the effective lubrication of all types of conveyor and drive chains within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Suitable for gearboxes and reduction units, PROTEAN Chain & Gear contains additives to extend servicing and lubrication intervals, boost performance, improved adhesion and offers excellent water wash-off resistance.

**Halal/Kosher Certified.**

**BENEFITS: CHAINS (DRIVE AND CONVEYOR)**

- Penetrates to the links and pins reducing wear and extending chain life
- Adhesive additives ensure no fling, thus providing lasting lubrication
- Effective water resistance and corrosion prevention, even where alkali materials are present
- Extremely wide temperature range ensures maximum application versatility

**BENEFITS: GEARBOXES / REDUCTION UNITS**

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



## Chain Spray

### Tenacious anti-fling lubricant

PROTEAN Chain Spray is a food grade chain spray which is a highly tenacious, anti-fling lubricant designed to keep chain and drive systems operating smoothly. Being non-toxic and water resistant it is ideal when used on food conveyor systems requiring frequent wash down.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Non-toxic
- Water resistant – withstands washing
- Anti-fling for fast moving components
- Highly tenacious – will not drip off
- Anti-corrosion additives
- Withstands high temperatures
- Temperature range: -20°C to +200°C
- 360° valve for inverted use

F408 400ML

Chain & Gear 150	TF7005	5L	Temperature range: -30°C to +200°C
	TF7025	25L	
	TF7099	205L	
Chain & Gear 220	TF7105	5L	Temperature range: -30°C to +240°C
	TF7125	25L	
	TF7199	205L	
Chain & Gear 320	TF5105	5L	Temperature range: -30°C to +240°C
	TF5125	25L	
	TF5199	205L	
Chain & Gear 680	TF5305	5L	Temperature range: -30°C to +240°C
	TF5325	25L	
	TF5399	205L	



## Food Safe Lubricant

Food grade light duty lubricant

TYGRIS Food Safe Lubricant is a H1 registered vegetable oil based lubricant, available in a convenient silicone-free spray formulation. Both odourless and colourless, TYGRIS Food Safe Lubricant has been designed for use on chains, gears, slides and linkages, and to penetrate cable cores.

**BENEFITS:**

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Silicone free
- Odourless, colourless and non-staining
- Anti-throw properties for moving chains
- Penetrates cable cores
- Use on chains, slides, gears and linkages
- Good temperature range
- 180°C Continuous – 200°C Intermittent

**R219 400ML**



## 3H1 Grease (Spray)

High performance direct contact grease

PROTEAN 3H1 Grease (Spray) is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease (Spray) prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable.

**BENEFITS:**

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

**F430 400ML**



## 3H1 Grease

High performance direct contact grease

PROTEAN 3H1 Grease is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable. **Halal/Kosher Certified.**

**BENEFITS:**

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

**TF3004 400G**

**TF3005 500G**

**TF3030 3KG**

**TF3018 18KG**



## Synthetic Chain Lubricant

Tenacious, anti-fling chain lubricant

TYGRIS Synthetic Chain Lubricant is a highly effective clear lubricant used in the food processing industry where a tenacious non-fling product is to be used in both high and low temperature environments, actively extending chain life by excluding moisture and protecting from corrosion. Resistant to water wash off and acids, it has been specially formulated for use on slow and fast moving chains.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- For use on conveyor, drive and forklift chains
- High resistance to throw off
- Clear, non marking lubricant
- Outstanding lubrication under dynamic conditions
- Excellent resistance to water and acids
- Working temperature from -30° to 240°C
- Resists and prevents corrosion

**IS77 400ML**

# 3. COMPRESSOR & HYDRAULIC OILS

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY







## Airline Oil

### Specialist lubricant for pneumatic installations

PROTEAN Airline Oil is a food grade, non-toxic lubricant developed for pneumatic airline systems used in food, drink and pharmaceutical processing and packaging equipment. Also suitable for other compressed air systems where a clean, non-staining product is desired. **Halal/Kosher Certified.**

**BENEFITS:**

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Low coefficient of friction provides excellent lubrication and reduces wear
- Clean and non-staining feature keeps rejects to a minimum
- Protects against air moisture and provides a high degree of internal corrosion protection
- Reduces residue and scum build-up extending maintenance intervals
- Overcomes difficulties associated with vane scorching
- All ingredients are FDA listed

TF7905 5L

TF7925 25L



## Hydraulic Oil

### Clean, non-staining lubricant

PROTEAN Hydraulic Oil is a food grade, non-toxic lubricant developed for hydraulic systems, and is suitable for use in food, drink and pharmaceutical, processing and packaging equipment. It is also suitable for hydraulic systems requiring clean, non-staining hydraulic oil. **Halal/Kosher Certified.**

**BENEFITS:**

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Low coefficient of friction provides excellent lubrication and reduces wear
- Fully synthetic oil provides extremely wide temperature stability and ensures greatly extended servicing intervals
- Low foaming reduces residue and scum build-up, which extends maintenance interval
- For use in systems that require a PAO 22 viscosity oil. PAO 32/46/68/100 viscosity oils also available

PAO 22	TF7225	25L
	TF7299	205L
PAO 32	TF7325	25L
	TF7399	205L
PAO 46	TF7425	25L
	TF7499	205L

PAO 68	TF7525	25L
	TF7599	205L
PAO 100	TF7625	25L
	TF7699	205L



## Compressor Oil PAO 46

### Clean, non staining lubrication

PROTEAN Compressor Oil is a food grade non-toxic, synthetic oil which has been developed for all types of compressors used in the food, drink and pharmaceutical industries. **Halal/Kosher Certified.**

**BENEFITS:**

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Low friction coefficient provides excellent lubrication and reduces wear
- Fully synthetic oil provides extremely wide temperature and oxidation stability ensuring greatly extended servicing intervals
- High degree of de-emulsification provides greater lubrication efficiency
- Low foaming for less residue and scum build up, thereby reducing maintenance costs
- For use where a PAO 46 viscosity oil is required. PAO 68/100 also available

TF7705 5L

TF7725 25L

TF7799 205L



## Vacuum Pump 100

### Fully synthetic Vacuum Pump Lubricant

PROTEAN Vacuum Pump 100 is a NSF H1 registered, fully synthetic oil designed for the effective lubrication of vacuum pumps commonly used within Food & Beverage environments. Offering a high degree of chemical stability with proven oxidation resistance, PROTEAN Vacuum Pump 100 oil successfully reduces the formation of sludge and deposits thus prolonging oil service life, yielding increased pump efficiency and reliability and much needed maintenance savings.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Low coefficient of friction provides excellent lubrication performance and reduced wear
- Effective de-emulsification enables greater lubrication efficiency
- Long and extended service life due to high degree of chemical and thermal stability with minimal deposit formation
- Temperature range -40°C to +150°C

TF6825 25L

# 4. ANTI-SEIZE & ASSEMBLY

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## Assembly Grease

### Protects against premature wear during running in

PROTEAN Assembly Grease is a food safe non toxic grease-like compound with high solids content, used as an assembly lubricant for lubricating bushes, sliding surfaces and gears, and as an anti-seize compound for threaded fasteners. Designed to prevent damage on start-up and to protect against premature wear during running in.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Low friction coefficient for running-in protection
- Prolongs component life
- Provides protection against scuffing during assembly
- Resists water wash off
- Prevents seizure of threaded components
- Dismantled threaded components can be reused
- Does not contain genetically modified ingredients, nut oil or derivatives

**TF8005 500G**

**TF8030 3KG**



## ProPaste+

### High performance multi-purpose lubricant

PROTEAN ProPaste+ is a NSF: H1 registered, highly versatile, multi-purpose paste for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. With a high solids content, PROTEAN ProPaste+ provides an all-in-1 premium food grade solution for assembly, anti-seize, lubrication and pre-treatment needs, and represents the true nature and meaning of 'Protean'. **Halal/Kosher Certified.**

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Ideal as an assembly lubricant for bushes, sliding surfaces and small open plastic or metal gears, and extends relubrication intervals
- Exhibits excellent EP performance with a 4 ball weld load of 600kg
- Effective anti-seize compound for threaded fasteners
- Protects components during startup and running in
- Suitable for use as a ceramic paste
- Commonly used in the plastic moulding industry for the pre-treatment of ejector pins
- Temperature range -30°C to +150°C (service lubricant) -30°C to +1100°C (anti-seize) “

**TF5905 500G**

**TF5930 3KG**

**TF5918 18KG**



## Penetrating Oil

### Penetrating and release fluid

PROTEAN Penetrating Oil is a penetrating and release fluid with anti-corrosion properties which actively penetrates seized components. A residual lubricating film adheres to the released part, facilitating re-assembly and helping prevent further corrosion. Effective over a wide temperature range, the all angle valve allows use in an inverted position.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Powerful penetration through rust, scale and grime
- Leaves a corrosion resistant coating
- Acts over a wide temperature range
- Temperature range: -20°C to +250°C
- 360° valve for inverted use

**F412 400ML**



## ProPaste

### High performance multi-purpose spray lubricant

PROTEAN ProPaste is a spray-formulated tenacious lubricant suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Engineered as an anti-seize paste, PROTEAN Propaste is ideal for the assembly and lubrication of bushes, slides, threads and small open gears and also suitable as a food grade drilling, cutting and tapping lubricant in areas where in-situ repair and maintenance is required.

**BENEFITS:**

- NSF registration pending
- Highly versatile tenacious lubricant, resists water wash off
- Innovative anti-seize paste for assembly and lubrication
- Suitable for use as a food grade metal working paste
- Ideal for use on stainless steel fasteners
- 360° valve for inverted use

**F405 400ML**



## Seize Release+

High performance, fast acting dismantling lubricant

PROTEAN Seize Release+ is a spray-formulated fast acting penetrating and dismantling lubricant and suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Engineered to 'shock' components through rapid freezing, PROTEAN Seize Release+ quickly penetrates seized and rusted parts, enabling optimum 'release' and easy dismantling.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Fast acting Freeze & Release action for easy dismantling of seized, corroded and rusted parts
- Enables rapid and efficient wicking of the lubricant for deep penetration
- Suitable for use on all metals and most common plastics and rubbers
- Released parts remain lubricated and protected from corrosion
- 360° valve for inverted use

F428 400ML



## Synthetic Ejector Pin Lubricant

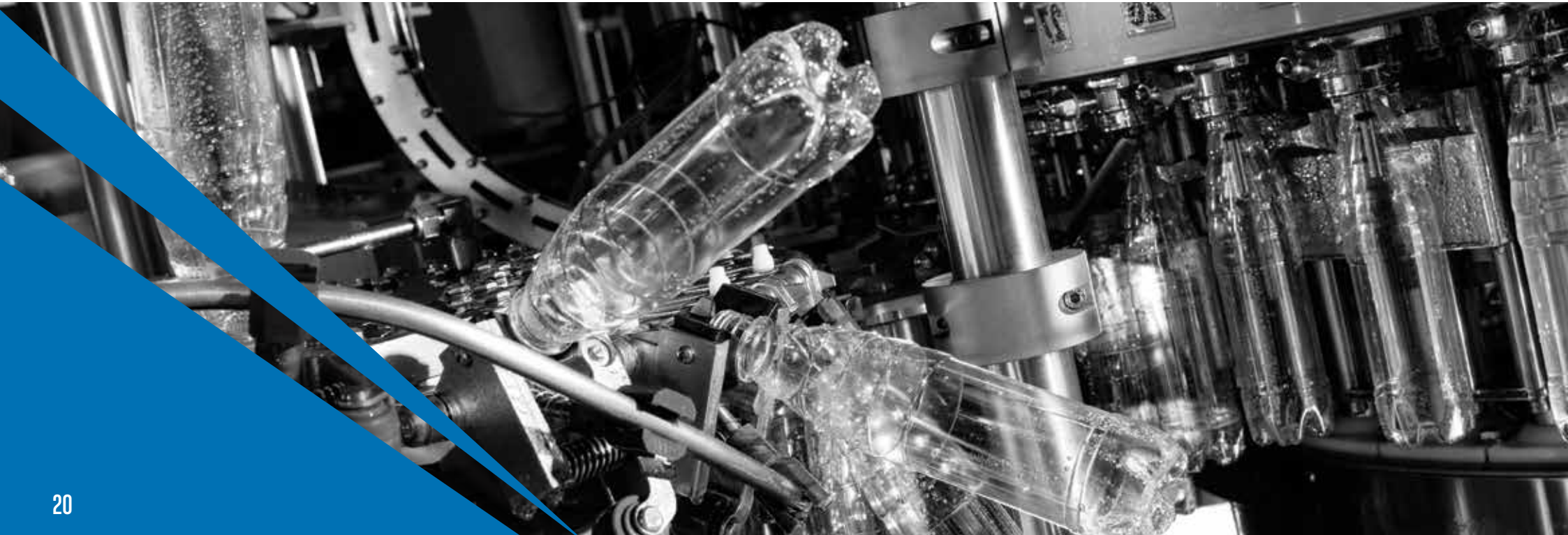
High temperature food grade spray lubricant

TYGRIS Synthetic Ejector Pin Lubricant is a NSF: H1 registered high temperature, fully synthetic lubricant, available in a convenient spray formulation. Engineered for the lubrication of ejector pins, pillars and bushes on plastic injection moulding machines, TYGRIS Synthetic Ejector Pin Lubricant has an operating temperature of up to 240°C and reduces contamination to mouldings, prevents seizure and protects against corrosion.

**BENEFITS:**

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Highly tenacious – resistant to 'creeping' on ejectors
- Provides long lasting lubrication
- Reduced mould contamination
- High surface slip
- Suitable up to 240°C
- Water resistant
- Fully synthetic
- 360° valve for inverted use

IS45 400ML



# PROTEAN ASSURED –

## A Complete 'Food Safe' Solution



- Site Visits • Lubrication Needs Assessments • Bespoke Storage Solutions • Real-time Support • Audit Compliance • Assurance Guaranteed...



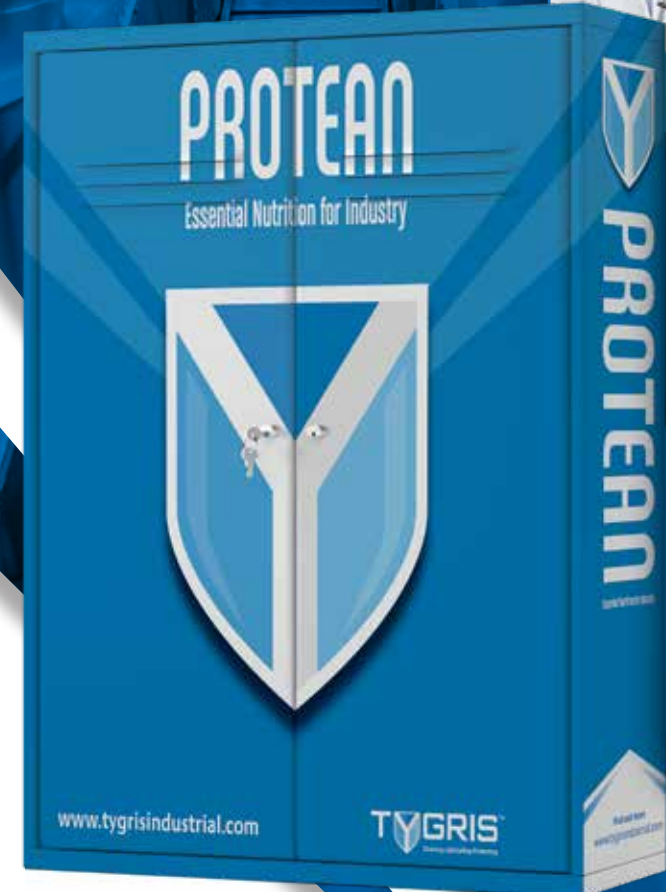
### Ungated online access to critical information

Unlike some of our competitors, we avoid the hurdles of having to register and login in order to access key essential information such as product safety data sheets, offering mobile friendly, real-time information 24/7/365.



### Bespoke audit compliance folders

Personalised folders bearing end-user and distributor logos. These are printed in-house and shipped FOC within 3 business days of initial request. Folders contain both safety and technical data sheets, NSF/Ins Certificates, Allergens Statements and even a PROTEAN pad and pen.



### Storage solutions

- Medium duty steel construction – quality by design
- Custom-wrapped with optional distributor branding
- Highly customisable to suit the needs of the end-user

# 5. CORROSION PREVENTION

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## Penetrate+

### Highly versatile penetrating fluid with PTFE

PROTEAN Penetrate+ is a NSF: H1 registered, highly versatile penetrating lubricant for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Enhanced with PTFE and non-toxic, PROTEAN Penetrate+ is ideal as a light duty penetrant, dewatering fluid or corrosion preventative on chains, bearings and slides. **Halal/Kosher Certified.**

#### BENEFITS

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Long wet film life with PTFE
- Excellent corrosion prevention
- Proven dewatering and anti-wear properties
- Does not form hard carbon deposits
- Temperature range -35°C to +140°C

TF5605 500ML



## AtmoShield+

### High performance corrosion inhibitive wax film

PROTEAN AtmoShield+ is a spray-formulated heavy duty wax film, enriched with corrosion inhibitors and suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Providing long term protection against corrosion on metal components and equipment, and resistant to both water wash-off and cleaning, PROTEAN AtmoShield+ is ideal for use on machined surfaces and assemblies that are subjected to long periods of storage or shipping conditions.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Corrosion inhibitors provide long-term metal protection, even outdoors
- White, clean film for improved coverage visibility
- Tenacious heavy duty wax film – resistant to wash wash-off and cleaning
- Ideal for use on components and machinery kept in long-term storage

F426 400ML



## 3H1 Fluid

### High performance direct contact fluid

PROTEAN 3H1 Fluid is a high performance, multi-purpose oil, engineered for use within food production environments where direct food contact is unavoidable. PROTEAN 3H1 Fluid prevents food products from adhering to surfaces during processing and also acts as a protective anti-rust film on metal surfaces, meat hooks and knives.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Non-tainting, clear and odourless
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for use on loaf pans, baking trays, chopping boards, boning benches and other hard surfaces that come into contact with food products
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients
- Excellent wide temperature resistance of -10°C to +120°C

TF3105T 500ML

TF3105 5L

TF3125 25L

TF3199 205L



## 3H1 Fluid (Spray)

### High performance direct contact fluid

PROTEAN 3H1 Fluid (Spray) is a high performance, multi-purpose oil, engineered for use within food production environments where direct food contact is unavoidable. PROTEAN 3H1 Fluid (Spray) prevents food products from adhering to surfaces during processing and also acts as a protective anti-rust film on metal surfaces, meat hooks and knives.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Non-tainting, clear and odourless
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for use on loaf pans, baking trays, chopping boards, boning benches and other hard surfaces that come into contact with food products
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients
- Excellent wide temperature resistance of -10°C to +120°C

F435 400ML



## Stainless Steel Cleaner

### Metal polish and cleaner

PROTEAN Stainless Steel Cleaner is a NSF: A7 registered dual action cleaner and polish suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Available in a convenient spray formulation, PROTEAN Stainless Steel Cleaner has been designed for use on stainless steel, aluminium and chrome and provides a protective coating to aid future cleaning and prevent corrosion.

#### BENEFITS:

- NSF: A7 registered (nonfood contact surfaces in and around food processing areas)
- For use on metal surfaces
- Cleans and polishes in one action
- Restores surface to original lustre
- Non-abrasive – will not scratch
- 360° valve for inverted use

**F420 400ML**



## WD Anti-Rust Agent

### Moisture displacement spray

PROTEAN WD Anti-Rust Agent is a PTFE based spray effective for use in displacing moisture and water based fluids from most surfaces, leaving a residual film of lubricant. Used on sliding surfaces, in bearings and for other light applications in food processing environments.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- PTFE based for effective moisture displacement
- Suitable for light lubrication
- Leaves a film of lubricant
- Temperature range: -20°C to +250°C
- 360° valve for inverted use

**F416 400ML**





# TYGRIS™

Cleaning Lubricating Protecting

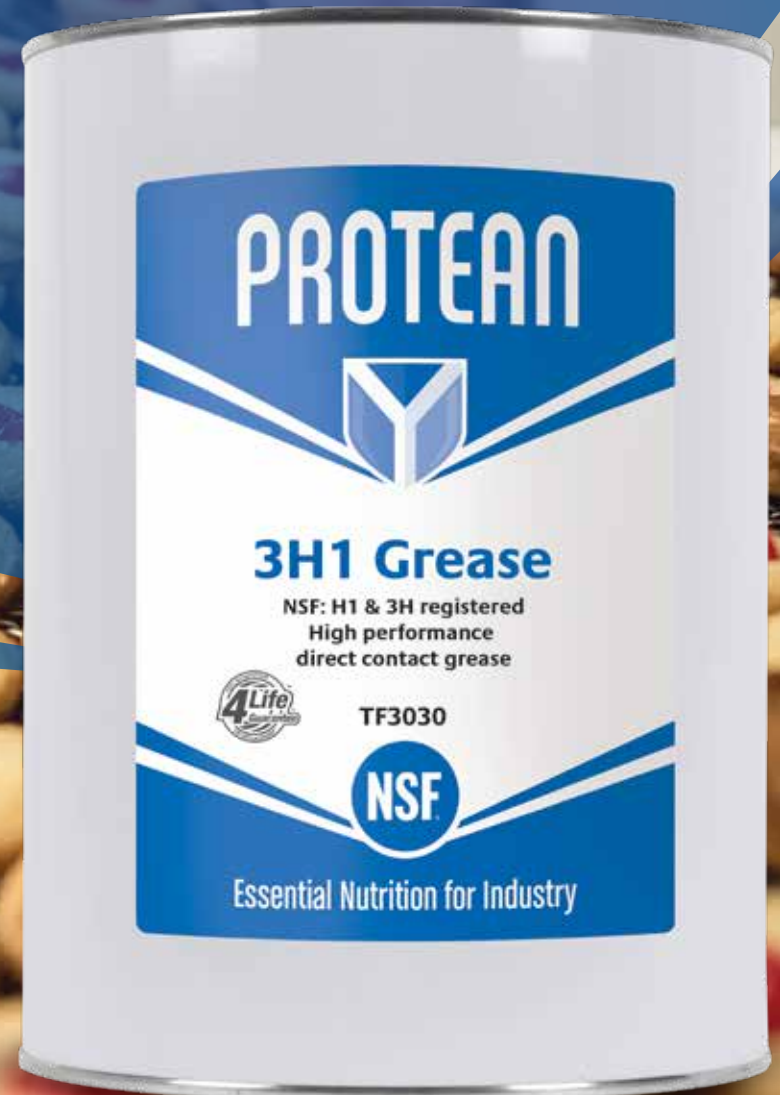
Enjoy our  
selection of  
**PROTEAN 3H1**  
servings



There is a **better way...** *Choose TYGRIS!*

# 6. DIRECT FOOD CONTACT

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## 3H1 Fluid

### High performance direct contact fluid

PROTEAN 3H1 Fluid is a high performance, multi-purpose oil, engineered for use within food production environments where direct food contact is unavoidable. PROTEAN 3H1 Fluid prevents food products from adhering to surfaces during processing and also acts as a protective anti-rust film on metal surfaces, meat hooks and knives.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Excellent wide temperature resistance of -10°C to +120°C
- Non-tainting, clear and odourless
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for use on loaf pans, baking trays, chopping boards, boning benches and other hard surfaces that come into contact with food products
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

TF3105T 500ML

TF3105 5L

TF3125 25L

TF3199 205L



## 3H1 Grease

### High performance direct contact grease

PROTEAN 3H1 Grease is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

TF3004 400G

TF3005 500G

TF3030 3KG

TF3018 18KG



## 3H1 Fluid (Spray)

### High performance direct contact fluid

PROTEAN 3H1 Fluid (Spray) is a high performance, multi-purpose oil, engineered for use within food production environments where direct food contact is unavoidable. PROTEAN 3H1 Fluid (Spray) prevents food products from adhering to surfaces during processing and also acts as a protective anti-rust film on metal surfaces, meat hooks and knives.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Excellent wide temperature resistance of -10°C to +120°C
- Non-tainting, clear and odourless
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for use on loaf pans, baking trays, chopping boards, boning benches and other hard surfaces that come into contact with food products
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

F435 400ML



## 3H1 Grease (Spray)

### High performance direct contact grease

PROTEAN 3H1 Grease (Spray) is a non-toxic, wide temperature, multi-purpose grease offering enhanced anti-wear performance for prolonged component life. PROTEAN 3H1 Grease (Spray) prevents food products from adhering to surfaces during processing and is suitable for most applications where direct food contact is inevitable.

#### BENEFITS:

- NSF: 3H registered (release agent for direct contact with food)
- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Significant wide temperature resistance of -30°C to +120°C
- Exhibits superior EP performance with a 4-ball weld load of 400kg
- Suitable for use as a direct food contact release agent and multi-purpose lubricant
- Ideal for bearings, blades, guides, seals and other sliding surfaces
- Excellent lubrication performance and enhanced oxidative stability for both extending lubrication intervals and reducing lubricant usage
- Improved anti-wear performance helps prolong component life
- Good sealing properties protect against unwanted corrosive contaminants
- Does not contain animal derived materials, nut oils or genetically modified ingredients

F430 400ML

# 7. GENERAL MAINTENANCE

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## Belt Dressing

### Belt dressing spray

PROTEAN Belt Dressing is an effective food grade belt dressing spray used to reduce slippage and extend the life of drive belts, increasing transmitted power and improving efficiency and economy.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- High tack for maximum power transmission
- Reduces belt slippage for less squeal
- Decreases energy costs
- Does not reduce tensile strength
- Effective in damp conditions
- Extends belt life
- Temperature range: -50°C to +150°C
- 360° valve for inverted use

F414 400ML

## Food Safe Lubricant

### Food grade light duty lubricant

TYGRIS Food Safe Lubricant is a H1 registered vegetable oil based lubricant, available in a convenient silicone-free spray formulation. Both odourless and colourless, TYGRIS Food Safe Lubricant has been designed for use on chains, gears, slides and linkages, and to penetrate cable cores.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Silicone free
- Odourless, colourless and non-staining
- Anti-throw properties for moving chains
- Penetrates cable cores
- Use on chains, slides, gears and linkages
- Good temperature range
- 180°C Continuous – 200°C Intermittent

R219 400ML



## Multi-Lube

### Multi-purpose lubricant

PROTEAN Multi-Lube is a general purpose food grade lubricant for use in and around food processing areas, for the lubrication of cables, chains, castors, hinges, bearings and pins.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Effective over a wide temperature range
- Good water displacement
- Good penetration properties
- Effective corrosion resistance
- Temperature range: -20°C to +200°C
- 360° valve for inverted use

F404 400ML



## Penetrate+

### Highly versatile penetrating fluid with PTFE

PROTEAN Penetrate+ is a NSF: H1 registered, highly versatile penetrating lubricant for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Enhanced with PTFE and non-toxic, PROTEAN Penetrate+ is ideal as a light duty penetrant, dewatering fluid or corrosion preventative on chains, bearings and slides

#### BENEFITS

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Long wet film life with PTFE
- Excellent corrosion prevention
- Proven dewatering and anti-wear properties
- Does not form hard carbon deposits
- Temperature range -35°C to +140°C

TF5605 500ML



## AtmoShield+

### High performance corrosion inhibitive wax film

PROTEAN AtmoShield+ is a spray-formulated heavy duty wax film, enriched with corrosion inhibitors and suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Providing long term protection against corrosion on metal components and equipment, and resistant to both water wash-off and cleaning, PROTEAN AtmoShield+ is ideal for use on machined surfaces and assemblies that are subjected to long periods of storage or shipping conditions.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Corrosion inhibitors provide long-term metal protection, even outdoors
- White, clean film for improved coverage visibility
- Tenacious heavy duty wax film – resistant to wash wash-off and cleaning
- Ideal for use on components and machinery kept in long-term storage

**F426 400ML**



## PTFE Multi Lube

### Multi-purpose lubricant with PTFE

PROTEAN PTFE Multi Lube is a H1 registered, food grade multipurpose lubricant enriched with PTFE, developed as a penetrating and de-watering lubricant and ideal for use on bearings, chains and slides.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Good anti-wear properties
- Good de-watering properties
- Excellent penetration
- Long life lubricating film with PTFE
- Excellent corrosion protection
- Does not contain: mineral hydrocarbons, animal derived materials, nut oils or genetically modified ingredients, FDA listed ingredients under 21 CFR 178.3570
- Temperature range -50°C to 180°C

**TF8605 500ML**

**TF8650 5L**

**TF8625 25L**



## PTFE Dry Film Lubricant

### PTFE dry film lube

PROTEAN PTFE Dry Film Lubricant has been engineered for use in food processing environments, formulated for use where conventional oils and greases are undesirable due to their dirt attracting nature.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- PTFE- based lubricant with excellent anti-stick properties
- Use to lubricate links, pins and slides
- Effective release agent
- Non-toxic film
- Withstands high temperature
- Temperature range: -20°C to +270°C
- 360° valve for inverted use

**F410 400ML**



## Silicone Release

### Silicone release lubricant

PROTEAN Silicone Release is an effective lubricant and release agent for the food industry, used to protect and lubricate a wide range of parts and equipment and for the release of injection moulded parts when traditional oils are not suitable.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Silicone based – an alternative to traditional oils
- Colourless and odourless
- Non-staining and non-tainting
- Wide temperature range
- Excellent release properties
- Temperature range: -20°C to +200°C
- 360° valve for inverted use

**F418 400ML**



## Silicone Paste

### Silicone based multi-purpose grease

PROTEAN WRAS-approved Silicone Paste is an NSF: H1 registered lubricant for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Commonly used as a high viscosity grease in the lubrication and assembly of taps, valves, elastomer seals and O-rings including applications working under vacuum. The high water repellent property of silicone paste gives excellent water washout resistance.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Very resistant to extreme temperatures of between -50°C and +200°C in continuous use and of over 200°C when exposed for short periods
- Resistant to chemical agents: resists solvents, resists oxidation and remains unaltered by mineral and vegetable oils
- Highly water repellent – resists very well to water wash out
- Chemically inert; non corrosive on metals and no plasticising effect on rubbers or plastics
- Very little variation in viscosity with fluctuations of temperature

TF8605 500G

TG8650 5KG

TG8620 20KG



## WD Anti-Rust Agent

### Moisture displacement spray

PROTEAN WD Anti-Rust Agent is a PTFE based aerosol effective for use in displacing moisture and water based fluids from most surfaces, leaving a residual film of lubricant. Used on sliding surfaces, in bearings and for other light applications in food processing environments.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- PTFE based for effective moisture displacement
- Use for light lubrication
- Leaves a film of lubricant
- Temperature range: -20°C to +250°C
- 360° valve for inverted use

F416 400ML



## Sugar Dissolving Fluid

### Fluid for dissolving sugar and fondants from all surfaces

PROTEAN Sugar Dissolving Fluid is a non-toxic fluid that dissolves sugar and fondants from all types of applications commonly found in food, pharmaceutical and other clean environments. Designed to leave a durable film on the surface for lubrication and to resist further contamination.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Wide temperature range
- Rapidly dissolves sugar and fondants
- Penetrates rapidly to leave a light, durable lubricating film on the surface
- Provides light corrosion surface protection after cleaning

TF8705 500ML

TF8750 5L



## White Grease Spray

### Water resistant white grease

PROTEAN White Grease Spray is a NSF: H1 registered spray-formulated water resistant lubricant, ideal for use on roller and needle bearings and chains.

#### BENEFITS:

- NSF: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Contains anti-wear additives for long component life
- Water resistant – suitable where frequent washing down of equipment is required
- Corrosion resistant
- Effective to high temperatures
- Temperature range: -20°C to +200°C
- 360° valve for inverted use

F402 400ML

# CALLING TYGRIS SOS...



Trying out new products can often be a daunting proposition, especially if you have to buy products without trying them first.

So confident are we in our products, our Sample Order Service, more commonly known as **TYGRIS SOS**, provides samples at no cost or obligation, providing peace of mind to both TYGRIS distributors and end-users alike.

Try **TYGRIS** with confidence knowing that you can try our products FREE of charge. If the sample doesn't quite do what you need it do, we'll send you alternative sample to try, direct to your door! We'll even include a TYGRIS treat as a thank you for trying TYGRIS.

## ORDER YOURS TODAY...

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# 8. INDUSTRIAL CLEANERS

ADVANCED SOLUTIONS FOR THE FOOD INDUSTRY





## Electrical Cleaner

### Fast drying electrical cleaner

PROTEAN Electrical Cleaner is a NSF: K2 registered quick drying solvent cleaner suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Effective in cleaning and degreasing electrical components, PROTEAN Electrical Cleaner leaves no residue thus making for an efficient process without the added chore of wiping off dissolved dirt.

#### BENEFITS:

- NSF: K2 registered for use as a solvent for cleaning electronic instruments and devices, which will not tolerate aqueous cleaning solutions in and around food processing areas. Not intended for direct food contact.
- Solvent dries off in approximately 1 minute
- Leaves no residue
- Safe for use on most plastic or painted surfaces
- Effectively removes grease and dirt
- 360° valve for inverted use

F406 400ML



## Fast Dry Solvent Cleaner

### Fast drying solvent cleaner

PROTEAN Fast Dry Solvent Cleaner is a NSF: K1 registered, fast drying, solvent cleaner, powerful enough to dissolve away all types of workshop contaminants, leaving no residue and eliminating the need for rinsing.

#### BENEFITS:

- NSF: K1 registered for use in non-food processing areas where there is no possibility of solvent vapours entering a processing area
- Powerfully removes all types of contaminant
- Fast drying
- Leaves no residue
- Does not contain chlorinated solvents
- Temperature range: -20°C to +65°C
- 360° valve for inverted use

F400 400ML



## Foaming Cleaner

### Multi surface foam cleaner

PROTEAN Foaming Cleaner is a NSF: A1 registered multi-surface foam cleaner suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Formulated with a foaming action to cling longer to surfaces for improved contact time and effectiveness.

#### BENEFITS:

- NSF: A1 registered for use as a general cleaner on all surfaces in an around food processing areas where its use is not intended for direct food contact
- For use on all hard surfaces
- Foaming action for longer contact time
- Cuts through grease and grime effectively
- Gentle cleaning action – will not scratch
- Benign cleaning ingredients
- 360° valve for inverted use

F422 400ML



## Instant Degreasing Cleaner

### General cleaner sanitiser

PROTEAN Instant Degreasing Cleaner is a ready-to-use cleaner for professional use in food environments, killing bacteria fast and effectively removing grease and grime with powerful degreasing agents. It is non-tainting and tested to BS EN 1276 standard.

#### BENEFITS:

- InS: A1 registered for use as a general cleaner on all surfaces in an around food processing areas where its use is not intended for direct food contact
- Suitable for use in food processing environments
- Kills bacteria
- Non-tainting
- Powerful degreaser

F906T 750ML F906 5L



## Label Remover

### Penetrates and dissolves adhesives

PROTEAN Label Remover is a NSF: K3 registered, spray-formulated, label remover suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Effective in the removal of sticky labels from most substrates including many plastics, metals, rubbers, painted surfaces and other impervious materials, leaving no residues or markings.

#### BENEFITS:

- NSF: K3 registered for use in removing adhesive or glue from food packaging materials in and around food processing areas, where its use is not intended for direct food contact
- Dissolves gums and adhesives from self adhesive labels
- Suitable for most surfaces
- Leaves no residues
- High penetrating power
- 360° valve for inverted use

**F424** **400ML**



## Stainless Steel Cleaner

### Metal polish and cleaner

PROTEAN Stainless Steel Cleaner is a NSF: A7 registered dual action cleaner and polish suitable for use within Food & Beverage, Packaging, Pharmaceutical and other cleanroom environments. Available in a convenient spray formulation, PROTEAN Stainless Steel Cleaner has been designed for use on stainless steel, aluminium and chrome and provides a protective coating to aid future cleaning and prevent corrosion.

#### BENEFITS:

- NSF: A7 registered for nonfood contact surfaces in and around food processing areas
- For use on metal surfaces
- Cleans and polishes in one action
- Restores surface to original lustre
- Non-abrasive – will not scratch
- 360° valve for inverted use

**F420** **400ML**



## Sugar Dissolving Fluid

### Fluid for dissolving sugar and fondants from all surfaces

PROTEAN Sugar Dissolving Fluid is a non-toxic fluid that dissolves sugar and fondants from all types of applications commonly found in food, pharmaceutical and other clean environments. Designed to leave a durable film on the surface for lubrication and to resist further contamination.

#### BENEFITS:

- InS: H1 registered (lubricant with incidental food contact – for use in and around food processing areas)
- Wide temperature range
- Rapidly dissolves sugar and fondants
- Penetrates rapidly to leave a light, durable lubricating film on the surface
- Provides light corrosion surface protection after cleaning

**TF8705** **500ML** **TF8750** **5L**

## CATEGORY CODES AT A GLANCE

Category & Code	Intended Use
<b>Food Processing Substances</b>	
3A	Poultry scald agents
3B	Hog scald agents
3C	Tripe denuding, bleaching and neutralizing agents
3D	Substances for washing fruits and vegetables
3DX	Ingredients for use in fruit and vegetable washing products
3E	Preflushing agents for casings
3F	Refining agents for rendered fats
3G	Rendering agents
3H	Release agents
<b>Cleaning Products</b>	
A1	General cleaners
A2	Soak tank, steam/mechanical cleaners
A3	Acid cleaners
A4	Floor and wall cleaners
A5	Freezer floor and wall cleaners
A6	Scouring cleaners
A7	Metal polishes – nonfood contact
A8	Degreasers/carbon removers
AX	Ingredients for use in Cleaning Products
<b>Nonprocessing Area Products</b>	
C1	General
C2	Toilet/dressing room
C3	Paint removers
CX	Ingredients for use in Nonprocessing Area Products
<b>Antimicrobial Products</b>	
D1	Antimicrobial agents always requiring a rinse
D2	Antimicrobial agents not requiring rinse
DX	Ingredients for use in Antimicrobial Products
<b>Hand Care Products</b>	
E1	Handwashing products
E2	Handwashing and sanitizing products
E3	Hand sanitizing products
E4	Hand lotions/cleaners – nonfood contact
EX	Ingredients for use in Hand Care Products
<b>Lubricants</b>	
H1	General – incidental food contact
H2	General – nonfood contact
H3	Soluble oils
HX-1	Ingredients for use in H1 Lubricants
HX-2	Ingredients for use in H2 Lubricants
HX-3	Ingredients for use in H3 Lubricants
<b>Heat Transfer Fluids</b>	
HT1	Heat transfer fluids – incidental food contact
HT2	Heat transfer fluids – nonfood contact
HTX-1	Ingredients for use in HT1 Heat Transfer Fluids
HTX-2	Ingredients for use in HT2 Heat Transfer Fluids
<b>Solvent Cleaners</b>	
K1	Nonprocessing area products
K2	Electronic instrument cleaners
K3	Adhesives/glue removers
KX	Ingredients for use in Solvent Cleaners
<b>Coatings</b>	
R1	Coatings for use on direct food contact surfaces
R2	Coatings for use on structural surfaces – nonfood contact
RX-1	Ingredients for use in R1 Coatings
RX-2	Ingredients for use in R2 Coatings

### ISO9001 : 2008

Internationally recognised Quality Management System which has been implemented and maintained by TYGRIS since 2004.

### ISO14001 : 2004

Internationally recognised Environmental Management System to assist in controlling the environmental impact of a company's activities.

### NSF International

Formerly the National Sanitation Foundation, NSF launched its voluntary Nonfood Compounds Registration Programme to re-introduce the previous authorisation programme administered by the U.S. Department of Agriculture (USDA). Product evaluation is based on formulation and label review.

### InS Services (UK based, operational worldwide)

InS has been in operation since 2008. It operates a programme for the registration of Nonfood Compounds to the standards originally set out by the U.S. Food & Drug Administration (FDA) and administered by the US Department of Agriculture (USDA). In 1998 this was administered by NSF International and in 2008 InS introduced a fast web-based alternative, operating to the same standards and with published prices.

### 3H

Proprietary substances for use as a release agent and acceptable for direct food contact. These products are used on grills, loaf pans, cutters, boning benches, chopping boards, or other hard surfaces in contact with meat and poultry food products to prevent food from adhering during processing. Products containing edible oils such as corn oil, cottonseed oil and soybean oil, mineral oil complying with 21 CFR, Part 172, Section 172.878, and other GRAS substances may be acceptable upon review by NSF. In addition, defoaming agents complying with 21 CFR Section 173.340 (a) (1) and (a) (2) may be acceptable.

### Nonfood Compounds

Products that are used in and around food processing areas, but are not intended for direct food contact, or are not expected to become a component of a meat, poultry, or egg product, are defined as "nonfood compounds". These include products such as maintenance and cleaning chemicals, sanitizers and pesticide chemicals, lubricants, water treatment compounds, shell egg cleaning, defoaming, destaining, and sanitizing compounds, and other miscellaneous products. Category Codes assigned to the products are shown, where relevant, in the table (right).

### Nonfood Compounds Programme categories listed in this guide:

**A1** – Compounds for use as general cleaning agents on all surfaces, or for use with steam or mechanical cleaning devices in all departments. Before using these compounds, food products and packaging materials must be removed from the room or carefully protected. After using these compounds, surfaces must be thoroughly rinsed with potable water.

# Glossary of Terms

### A7 – Metal cleaners and polishes for nonfood contact surfaces

These compounds must be used in a manner so that all odours associated with the compounds are dissipated before food products or packaging materials are re-exposed in the area.

### H1 – Lubricants with incidental contact

These compounds may be used as a lubricant with incidental food contact for use in official establishments operating under the Federal meat and poultry products inspection programme. Such compounds may be used on food processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is potential exposure of the lubricated part to food. The amount used should be the minimum required to accomplish the desired technical effect on the equipment. If used as an anti-rust film, the compounds must be removed from the equipment surface by washing or wiping, as required to leave the surface effectively free of any substance which could be transferred to food by being processed.

### K1 – Cleaning and/or degreasing solvents for use in non-processing areas

Following the use of these compounds, equipment and utensils must be thoroughly washed, and rinsed with potable water, before being returned to a processing area.

### K2 – Solvents for cleaning electronic instruments

These compounds are chemically acceptable for cleaning electronic instruments and devices which will not tolerate aqueous cleaning solutions. Before using these compounds, food products and packaging materials must be removed from the area or carefully protected. These compounds must be used in a manner so that all odours associated with the compound are dissipated before food products or packaging materials are in the area.

### K3 – Adhesives or glue removers

Before using these compounds, food products and packaging materials must be removed from the area or carefully protected. After using these compounds, all surfaces must be thoroughly washed and rinsed with potable water. These compounds must be used in a manner so that all odours associated with the compound are dissipated before food products or packaging materials are re-exposed in the area.

### REACH

REACH is a European Union regulation concerning the Registration, Evaluation, Authorisation & Restriction of Chemicals. It came into force on the 1st of June 2007 and replaces a number of European Directives and Regulations with a single system.

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100% Proof VHT	TF5025	13	Chain 150 VHT	TF5299	14	Penetrate+	TF5605	23, 29
100% Proof H2O	TF4925	13	Chain Spray	F408	14	Penetrating Oil	F412	19
3H1 Fluid	TF3105	23, 27	Classic 0	TF4518	10	Premium EP2	TF5704	8
3H1 Fluid	TF3105T	23, 27	Classic 0	TF4530	10	Premium EP2	TF5718	8
3H1 Fluid	TF3125	23, 27	Classic 2	TF4404	10	Premium EP2	TF5730	8
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3H1 Grease	TF3005	9, 15, 27	Compressor Oil PAO 46	TF7725	17	ProPaste+	TF5930	19
3H1 Grease	TF3018	9, 15, 27	Compressor Oil PAO 46	TF7799	17	PTFE Dry Film Lube	F410	30
3H1 Grease	TF3030	9, 15, 27	Electrical Cleaner	F406	35	PTFE Multi Lube	TF8605	9, 30
3H1 Grease (spray)	F430	9, 15, 27	Energise NG2	TF5804	7	PTFE Multi Lube	TF8650	9, 30
Airline Oil	TF7905	17	Energise NG2	TF5818	7	PTFE Multi Lube	TF8625	9, 30
Airline Oil	TF7925	17	Energise NG2	TF5830	7	Seize Release+	F428	20
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AquaLoad	TF4204	7	Foaming Cleaner	F422	35	Silicone Paste	TG8620	31
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Assembly Grease	TF8030	19	Hydraulic Oil PAO 22	TF7299	17	Sugar Dissolving Fluid	TF8750	31, 36
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Chain & Gear 150	TF7005	14	Hydraulic Oil PAO 32	TF7399	17	Synthetic Ejector Pin Lubricant	IS45	20
Chain & Gear 150	TF7025	14	Hydraulic Oil PAO 46	TF7425	17	Ultra EPG	TF4304	9
Chain & Gear 150	TF7099	14	Hydraulic Oil PAO 46	TF7499	17	Ultra EPG	TF4318	9
Chain & Gear 220	TF7105	14	Hydraulic Oil PAO 68	TF7525	17	Ultra EPG	TF4330	9
Chain & Gear 220	TF7125	14	Hydraulic Oil PAO 68	TF7599	17	Vacuum pump 100	TF6825	17
Chain & Gear 220	TF7199	14	Hydraulic Oil PAO 100	TF7625	17	WD Anti-Rust Agent	F416	24, 31
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Electrical Cleaner	F406	35	Classic 0	TF4518	10	Hydraulic Oil PAO 22	TF7299	17
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Belt Dressing Spray	F414	29	Optimum 2	TF4730	8	Hydraulic Oil PAO 46	TF7499	17
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Silicone Release Spray	F418	30	100% Proof H2O	TF4925	13	Hydraulic Oil PAO 68	TF7599	17
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Label Remover	F424	36	Chain & Gear 320	TF5125	14	Compressor Oil PAO 46	TF7705	17
AtmoShield+	F426	23, 30	Chain & Gear 320	TF5199	14	Compressor Oil PAO 46	TF7725	17
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