MRO CHEMICALS FOR FOOD & BEVERAGE PROCESSING, PACKAGING & EQUIPMENT

OVER 35 ‘FG’ PRODUCTS IN THE AMBERSIL FOOD PROCESSING SAFE® RANGE:

- Cleaners
- Degreasers
- Lubricants
- Greases
- Oils
- Metal Working
- Leak Detection
- Anti-Corrosion
- Polymer Processing

www.ambersil.com
Ambersil has been manufacturing industrial chemicals for professionals for over 70-years and continues to remain at the forefront of maintenance aerosol technology.

With over 160 products in the range, Ambersil provides engineers with their ‘Complete Chemical Solution’ with many products backed by industrial, aviation, military, rail and automotive approvals.

- In-house laboratory facilities & QC
- Internationally respected brand known for performance, reliability & trust
- ISO 9001 & 14001
- Regional account managers for product and service support
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WHY USE NSF REGISTERED PRODUCTS

The Ambersil “Food Processing Safe” product range is fully NSF registered, for proven risk reduction.

See the product category ‘traffic-light’ icon in the product modules for guidance.

NSF EXPLAINED

NSF is an abbreviation for the National Sanitation Foundation, which is a global provider of public health and safety risk management solutions to companies, governments and consumers. Product evaluation is based upon formulation and label review with compliant receiving a letter of authorisation detailing application use.

- www.nsf.org

NSF CATEGORIES

- **GREEN** – Safest, use in all areas
- **AMBER** – Safe, use in all areas, with caution
- **RED** – Safe, control measures required

- **D2** Surface sanitising, for use in all areas, and not requiring a rinse
- **H1** Lubricant suitable for use with incidental food contact
- **S2** Lubrication, release agent, and anti-corrosion oil suitable for use in all areas and with direct to food contact
- **M1** Mould release agent on mould that are used to produce packaging material that will contact food
- **A1** A general cleaner for use in all areas
- **A7** Metal cleaner and polish for use in all areas
- **A8** Degreaser or carbon remover in all areas
- **H2** Lubricant suitable for use in all areas, no food contact
- **K1** Solvent degreaser for electronics, for use in all areas
- **K3** Adhesive and glue remover, suitable for use in all areas
- **P1** General cleaner for use in all areas, with caution
- **C1** Cleaner for use in non-food processing areas
- **K1** A cleaner/degreaser for use in non-food processing areas
Perma-Lock® is a unique, non-detachable spray system with dual position spray. There are no detachable pieces that can fall off, leading to contamination of goods and exposing food manufacturers and processors to costly recalls.

Perma-Lock® reduces the need for expensive x-ray or metal detection equipment: preventing loss is better than detecting loss.

You Just Can’t Lose!™

Available from Ambersil
NSF H1 GENERAL PURPOSE LUBRICANT

For use in the food industry as a highly effective metal-to-metal lubricating film.

- NSF H1 registered (N°137999 & 140249)
- Formulated using only food grade acceptable components
- Creates a highly effective lubricating and anti-friction film
- Can be used as an anti-corrosion coating for metal parts in high humidity conditions
- Operational Temperature range: -18°C to +120°C
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MACHINE OIL FG

NSF H1 GENERAL PURPOSE LUBRICANT

For use in the food industry as a highly effective metal-to-metal lubricating film.

- NSF H1 registered (No.137999 & 140249)
- Formulated using only food grade acceptable components
- Creates a highly effective lubricating and anti-friction film
- Can be used as an anti-corrosion coating for metal parts in high humidity conditions
- Operational Temperature range: -18°C to +120°C

CHAIN LUBE FG

FOOD GRADE PTFE CHAIN LUBRICANT

Ideal for all types of chains and chain driven drive systems. The addition of PTFE to the lubricant enhances long-term chain lubrication.

- NSF H1 registered (No.137998 & 143144)
- Gentle foaming action helps lubricant cling to chains and penetrate deep into links
- Leaves a tenacious, long lasting lubricating and anti-corrosion film
- Operational Temperature range: -15°C to +175°C
- Bulk version is not suitable for narrow bore or remote lubrication systems (for this application, see page 11 for Gear Oil Super FG)

DRY PTFE LUBE FG

NSF H1 REGISTERED DRY LUBRICANT

A fine, dry PTFE lubricant for the general lubrication of moving parts where an oily or silicone lubricant cannot be used.

- NSF H1 registered (No.139899).
- Excellent materials compatibility
- Deposits a dry, non-staining film of pure PTFE
- The dry film is unaffected by oil and solvents
- Operational Temperature range: -100°C to +200°C

SILICONE FG

NSF H1 REGISTERED SILICONE LUBRICANT

Use where friction reduction is required particularly plastic-to-plastic components, on guide rails or as a label adhesive anti-stick treatment to dramatically reduce label adhesive build-up.

- NSF H1 registered (No.138000)
- Excellent general lubrication with a relatively dry film
- Eliminates sticking, squeaking and binding
- Operational Temperature range: -40°C to +200°C
- Use on high-speed bagging lines and on chutes/slides
- Dry film ensures no product contamination
**PERMA-LOCK - H1 LUBRICANTS**

**PENETRATING OIL FG**

**FOOD GRADE PENETRATING OIL**

For use in the food & beverage industry on fasteners seized by heat, corrosion, over-tightening and contamination.

- NSF H1 registered (No.140260)
- Spray on, allow to penetrate, and remove seized fasteners without damaging the head, thread or risk shearing
- Does not contain silicone
- Safe for use on all metals

**BELT DRESSING FG**

**ADHESIVE BELT LUBRICANT**

Improves grip on all types of belts whilst reducing squeak and prolongs belt service life.

- NSF H1 registered (No.140257)
- Works on all types of belts: vee, flat, toothed, rubber, leather and fabric
- Protects belt from deterioration through oxidation and heat
- Tacky lubricating film increases belt pulling power and does not fling off

**ASSEMBLY PASTE FG**

**ANTI-SEIZE & ASSEMBLY COMPOUND**

Use in the same manner as a traditional Copper Anti-Seize on fasteners, or as a running-in compound for bearings. The non-metallic solids content make this product suitable for use in the food industry.

- NSF H1 registered (No.138266 & 139900)
- Prevents seizure of threaded components enabling easy and quick dismantling
- Operational Temperature range: -30°C to +1100°C

**FOOD GREASE FG**

**MULTI-PURPOSE SPRAY GREASE**

Formulated for use in the food and beverage industry on plain bearings, hinges and moving parts. Particularly for limited access areas where regular grease penetration may be difficult.

- NSF H1 registered (No.140258)
- NLGI type 2 white grease, aluminium complex thickened
- Excellent resistance to moisture with very low water wash-out
- Operational Temperature range: -20°C to +140°C
**H1 LUBRICANTS**

### AMBERGREASE FG1

**HIGH PERFORMANCE FOOD GRADE GREASE**

A high performance multi-purpose grease suitable for all bearing types and use at low temperatures. It demonstrates enhanced performance characteristics in moist or wet environments.

- NSF H1 Registered (No.138264)
- White, NLGI type 2, aluminium complex thickened grease
- Very good load performance: 4-ball weld load >200Kg
- Very low water-washout <1%
- Operational Temperature range: -50°C to +165°C

### AMBERGREASE FG2

**HIGH TEMPERATURE BEARING GREASE**

For use in the food/beverage industry on all types of plain bearings subjected to elevated temperatures such as on oven conveyors, oven fan bearings, bakery lines, autoclaves, and food container moulding machines.

- NSF H1 registered (No.138265)
- Translucent NLGI type 2 silicone grease
- Shell 4-ball weld load (IP 239): 180Kg
- Operational Temperature range: -20°C to +220°C

### AMBERGREASE FG3

**NSF H1 MULTI-PURPOSE BEARING GREASE**

A multi-purpose grease that is ideally suited to general bearing lubrication not subjected to extremes of operating requirements.

- NSF H1 registered (No.140248)
- NLGI type 2, translucent grease; aluminium complex thickened
- Ideal for end-of-line conveyor lubrication and low-load drive motor bearings
- Operational Temperature range: -20°C to +140°C

### HI-LOAD LUBE FG

**NSF H1 HEAVY DUTY BEARING GREASE**

Use on heavily loaded bearings and sliding surfaces (e.g. guide rails) to minimise friction and wear.

- NSF H1 registered (No.143048)
- Excellent load-bearing: 4-ball weld load >400Kg
- Excellent moisture resistance with very low water washout
- NLGI type 2, white, aluminium complex thickened grease
- Operational Temperature range: -40°C to +180°C
- Available in 18Kg
**3H OIL FG**

**FOOD CONTACT OIL**

3H Oil FG is a lubricating and release oil that can be used in applications where direct food contact is likely or certain. The light oil can be used as an anti-corrosion treatment on metal surfaces, tools, and equipment, as a release agent on bakery tins & moulds or as a light lubricant for mixing blades.

- NSF 3H & H1 registered (No.148343)
- Light oil seals out moisture and helps prevent corrosion
- Non-tainting, non-staining and clear
- Operational Temperature range: -5°C to +120°C

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**‘LO’ OILS FG**

**H1 REGISTERED, SEMI-SYNTHETIC, MULTI-PURPOSE OILS**

Lubricating & Gear Oils “LO” FG have good anti-corrosion properties, excellent material compatibility, good foam control characteristics and high shear force stability. Available in a range of viscosities.

- Viscosity @ 40°C: 32 68 100 220 460
- NSF H1 Reg: 143789 143794 143788 143792 143791
- Temperature Range: -21°C to +170°C
- Viscosity Index (VI): 105 105 105 116 121
- Fill & Code: 32103 32104 32105 32107 32108

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**HYDRAULIC OIL ‘SUPER’ FG**

**NSF H1 REGISTERED HYDRAULIC OIL**

A highly stable, effective hydraulic fluid for use in the food industry. Satisfies demands of hydraulic fluids DIN 51524/T2. Can also be used as a compressor oil (ISO 32).

- Viscosity @ 40°C: 32 46 68
- NSF H1 Reg: No.142717 No.142716 No.142714
- Temperature Range: -57°C to +238°C
- Viscosity Index (VI): 142 145 141
- Fill & Code: 30265 30266 30267 30268 30270 30271

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**GEAR OIL ‘SUPER’ FG**

**NSF H1 REGISTERED GEAR OIL ‘SUPER’ FG**

A transparent, odourless gear oil based on Polyalpheeolenes. These gear oils provide high EP and anti-wear performance, meeting DIN 51 517 standard. Gear Oil ‘Super’ 320 FG may be used as a chain lubricant.

- Viscosity @ 40°C: 150 220 320
- NSF H1 Reg: No.142715 No.142721 No.142720
- Temperature Range: -56°C to +256°C
- Viscosity Index (VI): 137 140 142
- Fill & Code: 30272 30273 30274 30275 30276 30277
**MULTI-OIL FG**

**NSF H1 REGISTERED MULTI-OIL**

Suitable for use as a general purpose bulk lubricant. Can be used in hydraulic systems (oil viscosity 32 or 46) and as a light duty anti-corrosion coating for transport of equipment and components.

- Can be used in mineral oil hydraulic systems and as a multi-purpose oil for general lubrication
- Viscosity Index: 105
- Operational Temperature range: -21°C to +170°C

**MOISTURE REMOVER FG**

**NSF REGISTERED DEWATERING FLUID**

For use on equipment to displace moisture, particularly after wash-down. Ideal for use on electronics.

- NSF H2 registered (No.142299)
- Prevents corrosion by displacing water from affected areas
- Operational Temperature range: -50°C to +120°C

**TUFCUT**

**NSF H2 REGISTERED CUTTING FLUID**

A ready to use metal working lubricant.

- NSF H2 registered (No.147110)
- Improves heat dissipation and prevents chip welding
- Prolongs drill tool life and improves cut quality
- Ideal for use on machinery that cannot be removed to the engineers workshop

**LEAK DETECTOR**

**WATER BASED GAS LEAK DETECTOR**

Highly visible and easy to use gas leak detector for pipe and joints. Ideal for HVAC installations.

- Water-based formulation with no oils, silicone, solvents and no ‘run-off’ hazards
- Non-flammable and odourless
- Oxygen system safe
- Meets BS EN 14291:2004, and can be used for VOSA MOT testing
**SILICONE RELEASE FG**

**FOOD GRADE SILICONE RELEASE AGENT**  
A high purity silicone release agent for packaging and moulding operations within the food/beverage sector.  
- NSF registered M1 (No.149686)  
- Suitable for use as a mould release agent and packaging machine anti-stick oil where the finished article will have direct to food contact  
- Maximum Operational Temperature: +200°C  
- Totally clean, clear, and non-staining ‘wet’ film

**NON-SILICONE RELEASE FG**

**FOOD GRADE NON-SILICONE RELEASE AGENT**  
A non-silicone release agent with NSF registration for use in the food/beverage industry as a packaging release.  
- NSF registered M1 (No.149689)  
- Use on food packaging which is intended for direct food contact such as plastic containers and sandwich boxes  
- Will not interfere with post moulding operations such as bonding and labeling  
- Operational Temperature to +170°C

**CLEAR MOULD PROTECTIVE**

**TRANSPARENT CORROSION INHIBITOR**  
Use on moulds as a long-term protective during storage. Now with NSF registration for use on food/beverage packing mould tools.  
- Displaces moisture leaving a durable, non-greasy protective film  
- NSF H2 registered (No.149688)  
- Will not stain or mark the mould; suitable for use with white and transparent polymers  
- Easily “moulded off” when production recommences  
- Waxy film allows handling and resists acid finger marks

**BLUE MOULD PROTECTIVE FG**

**HIGHLY VISIBLE CORROSION INHIBITOR FOR FOOD PACKAGING**  
A waxy, long lasting coating for mould tools and dies which is NSF registered for use in the food/beverage sector.  
- Non-silicone corrosion inhibitor for injection moulding tools  
- NSF H2 registered (No.149685)  
- Ideal for long-term storage of mould tools, dies, and jigs  
- Highly visible blue dye provides an easy visual method for ensuring complete coverage  
- Easily moulded off once production recommences
### CHOOSING THE CORRECT CLEANER

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### Automatic datasheet updating

A service offered to Ambersil end-users and distributors as a means to automate the task of updating Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS), reducing the burden on staff having to remember, schedule, and undertake this HSE requirement.

Ambersil safety data sheets are available in up to 31 languages through the website [www.ambersil.com](http://www.ambersil.com)

A unique service making compliance easy!
- 24/7 availability on-line
- Removes the potential to ‘forget’ to check for updates
- Saves time & easy to use
- Legislation changes frequently; do you always know when it has?
- Receive updates automatically
- All information held securely
- Register up to four email addresses; keeps all key personnel informed
**AMBERCLENS FG**  
**FOOD GRADE FOAM CLEANER**  
Developed for general cleaning in the food industry. Use to remove general grime and soiling from machinery.  
- NSF A1 registered (No.137995)  
- Stable, non-dripping foam helps break down soiling for effective cleaning  
- Cleans equipment, metal parts, and machinery  
- Biodegradable

**STAINLESS STEEL CLEANER FG**  
**DUAL ACTION CLEANER AND POLISH**  
For use on all types of stainless steel and other ‘shiny’ surfaces to remove light oils, fingerprints, and water marks.  
- NSF A7 and C1 registered (No.138212)  
- Dual action: cleans and polishes in one application  
- Dense foam allows use on vertical surfaces without dripping  
- Leaves an invisible, non-greasy film for lasting shine  
- Ideal post-maintenance cleaner

**DEGREASER FG**  
**NSF A1 WATER BASED DEGREASER**  
Use to degrease components when a regular solvent degreaser cannot be used. Formulated specifically for use in the food/beverage industry for risk reduction.  
- NSF A1 registered (No.137997)  
- Readily biodegradable  
- Effective in both hot and cold water  
- Use on gearbox housing, hydraulic systems, large panels, and even walls and floors  
- Concentrated for convenience and economy  
- Non-flammable

**INDUSTRIAL DEGREASER FG**  
**HEAVY DUTY, FAST EVAPORATING SOLVENT**  
Formulated for use in the food/beverage industry to tackle ‘difficult’ degreasing applications. Excellent general purpose solvent degreaser.  
- NSF A8 and K1 registered (No.140255 and 140250)  
- Powerful flushing action with superior wetting properties ensures excellent results  
- Zero residue
AMBERKLENE FG

BIODEGRADABLE SOLVENT DEGREASER
A medium/slower evaporation solvent degreaser for use in the food/beverage sector. Use to remove grease and oils from bearings, housings, conveyor drives, chains and even wax-based anti-corrosion coatings.

- NSF A8 and C1 registered (No.137996 and 140261)
- Higher flash point of +40°C for application safety

SOLVENT CLEANER FG

LOW ODOUR SOLVENT DEGREASER
Use for the general degreasing of mould tools, bearings, and equipment in the food and beverage sector.

- NSF K1 registered (No.149687)
- Minimal odour
- Cuts through oils, grease residues, mould release agents, polymer residues, and anti-corrosion coatings
- Zero residue
- Good materials compatibility

LABEL & ADHESIVE REMOVER FG

FOOD GRADE LABEL & ADHESIVE REMOVER
Use for the removal of packaging and transport labels from shipping containers, plastic boxes, and bulk storage (intermediate) drums.

- NSF K3 registered (No.140259)
- An optimum blend of solvent and citrus active ingredients penetrates paper labels rapidly
- Use on packaging lines to remove label & adhesive build up
- Minimises the requirement for scraping

SUGAR REMOVER & INHIBITOR FG

CLEANER FOR SUGAR DEPOSIT REMOVAL
Highly effective thin cleaning fluid that penetrates and lifts sugar, fondant, plant sugar extracts, and sugar derivatives from equipment surfaces.

- NSF H1 registered (No.144180)
- Formulated using only food grade acceptable components
- Leaves a light lubricating film that inhibits re-adhesion for easier clean-down
- Helps reduce scraping and improves equipment performance
UNIVERSAL SCREEN CLEANER
FOAMING VDU SCREEN CLEANER
Removes finger-marks and contamination from visual display units (VDU’s) such as LCD monitors and production control screens. Ideal for cleaning thermal imaging camera screens.
- Can be used on most screen types (LCD, TFT, Plasma, etc.)
- Exceptionally economical in use
- NSF P1 registered (No.147407)

CONTACT CLEANER FG
FOOD GRADE ELECTRICAL CONTACT CLEANER
Designed for electrical component maintenance in the food industry, particularly for on-line production electrics and similar delicate equipment.
- NSF K2 Registered (No.139627)
- Use to remove grime and contamination from PCB’s and electronics
- Reduces voltage drop due to contamination
- Non-corrosive and non-conductive

AIR DUSTER /2
NON-FLAMMABLE DUSTER FOR ELECTRONICS
A high pressure, inert, liquefied gas that safely removes dust and loose debris with a powerful ‘air’ jet. Helps prevent electronic component errors or downtime.
- NSF K2 Registered (No.157081)
- Safe for use on all surfaces, electronic components, and sensors
- Does not contain CFC’s, HFC’s, and is non-ozone depleting
- Powerful blast easily displaces loose contamination
- Non-flammable (directive 2008/47/EC) & zero odour in use
- GWP of just 6
GREENLIGHT® has been developed to reduce the potential risk of using incorrect maintenance chemicals in a food/drink processing facility. Seamlessly integrating with existing HACCP infrastructure, GREENLIGHT® - ‘the Food Safety System’ – provides a simple colour coded visual guide to which products can be used and where. See the table below for examples where GREENLIGHT® may help:

Using GREENLIGHT® demonstrates a commitment to risk reduction from potential product contamination during processing. Specific production facility audits will look for chemical and maintenance controls.

<table>
<thead>
<tr>
<th>BRC Issue 7</th>
<th>Summary</th>
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<tbody>
<tr>
<td>1.1.2</td>
<td>Senior management shall maintain and improve safety of products manufactured</td>
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<td>1.1.6</td>
<td>Management system in place for updates to materials</td>
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<tr>
<td>2.1</td>
<td>HACCP cross-departmental safety team</td>
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<tr>
<td>2.2.1</td>
<td>HACCP: establish control programmes</td>
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<td>2.5.1</td>
<td>Zone Segregation</td>
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<td>2.7.3</td>
<td>HACCP food safety team shall consider control measures</td>
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<td>2.8.1</td>
<td>Critical Control Points (CCP) identified and managed</td>
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<td>2.13.1</td>
<td>Documentation and record keeping for HACCP</td>
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<td>3.5.2.2</td>
<td>Documented approval of suppliers</td>
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<tr>
<td>3.5.3.1</td>
<td>Contractual agreements ensure risk minimisation with suppliers</td>
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<td>4.3.3</td>
<td>Contractors to be supervised with special reference to hazards</td>
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<tr>
<td>4.3.4; 4.3.5; 4.3.6</td>
<td>Low-risk, High-care, High-risk areas: procedures in place for minimising contamination</td>
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<tr>
<td>4.7.4</td>
<td>Product is not jeopardised during repairs</td>
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<td>4.7.5</td>
<td>Materials used in maintenance shall be segregated</td>
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<tr>
<td>4.7.6</td>
<td>Materials used in maintenance shall be food grade</td>
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<td>4.9.1.1</td>
<td>Processes in place to manage non-food chemicals</td>
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<tr>
<td>4.10.1.1</td>
<td>Detection or removal of foreign bodies</td>
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<td>4.10.1.4</td>
<td>Instigate preventative action to reduce (re)occurrence of contamination by foreign bodies</td>
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<td>4.10.3.1</td>
<td>Absence of detection equipment shall be based on an alternative, more effective method</td>
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<td>5.2.1</td>
<td>Allergen control</td>
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<tr>
<td>5.2.3</td>
<td>Documented allergen risk</td>
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</table>
GREENLIGHT® is based on the well-known and respected NSF (nsf.org) category codes in conjunction with user-defined risk audits. This highly visual facility zoning system is simple to implement and easy to understand.

GREENLIGHT® seamlessly integrates with existing HACCP infrastructure, providing a simple colour coded visual guide to identify which products can be used, and where. Simple to implement and easy to understand.

GREENLIGHT® assists with elements of the common supermarket and BRC audits that already call for maintenance chemical control; GREENLIGHT® takes these criteria and offers a verifiable solution for the audit check-list.