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**KEY CODE:**

**FILL SIZES:**

Available in 1L:
[Available in 1L](Image)

Available in 1.5L:
[Available in 1.5L](Image)

Available in 3L:
[Available in 3L](Image)

Available in 5L:
[Available in 5L](Image)

Available in 25L:
[Available in 25L](Image)

Available in 500g:
[Available in 500g](Image)

Available in 1Kg:
[Available in 1Kg](Image)

Available in 2.5Kg:
[Available in 2.5Kg](Image)

Available in 5Kg:
[Available in 5Kg](Image)

Available in 10Kg:
[Available in 10Kg](Image)

Available in 20Kg:
[Available in 20Kg](Image)

Available in 50Kg:
[Available in 50Kg](Image)

Available in 125Kg:
[Available in 125Kg](Image)

Available in 18Kg:
[Available in 18Kg](Image)

Available in 750ml:
[Available in 750ml](Image)

Available in 310ml:
[Available in 310ml](Image)

Available in 350ml:
[Available in 350ml](Image)

Available in 100ml:
[Available in 100ml](Image)

Available in 500ml:
[Available in 500ml](Image)

Available in 1L:
[Available in 1L](Image)

Available in 250ml:
[Available in 250ml](Image)

Available in 500ml:
[Available in 500ml](Image)

Available in 1L:
[Available in 1L](Image)

Available in 2L:
[Available in 2L](Image)

Available in 3L:
[Available in 3L](Image)

Available in 5L:
[Available in 5L](Image)

Available in 25L:
[Available in 25L](Image)

Available in 100ml:
[Available in 100ml](Image)

Available in 340ml:
[Available in 340ml](Image)

Available in 400ml:
[Available in 400ml](Image)

Available in 500ml:
[Available in 500ml](Image)

Available in 350ml:
[Available in 350ml](Image)

Available in 310ml:
[Available in 310ml](Image)

Available in 150ml:
[Available in 150ml](Image)

Available in 100ml:
[Available in 100ml](Image)

Available in 500ml:
[Available in 500ml](Image)

Available in 1L:
[Available in 1L](Image)

Available in 250ml:
[Available in 250ml](Image)

Available in 500ml:
[Available in 500ml](Image)

Available in 310ml:
[Available in 310ml](Image)

Available in 125Kg:
[Available in 125Kg](Image)

Available in 18Kg:
[Available in 18Kg](Image)

Available in 750ml:
[Available in 750ml](Image)

Available in 310ml:
[Available in 310ml](Image)

Available in 350ml:
[Available in 350ml](Image)

**LABEL LANGUAGES:**
- English Only Label
- Multi-Language Label
- Multi-Language Label
- 360° Spray System

**CERTIFICATIONS:**
- High Temp Resistance
- Non-flammable
- Halal Certified
- NSF Certified
- Food Processing Safe
- High Pressure Rated
- Automotive Approval
- Rail Approval
- Aerospace Approval
- MOD Approval

**APPROVALS:**
- Halal
- NSF
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MISREPRESENTATION ACT 1967 & TRADE DESCRIPTIONS ACT 1968
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All images used are for representation only. Colour swatches are not an identical match to actual colour.
**ADDING VALUE TO MAINTENANCE**

**CHEMICAL AUDIT & CONSOLIDATION**
Simplify chemical storage, ordering, and use by reducing the number of brands to the one that offers “Your Complete Chemical Solution™.”

**ON-DEMAND DATA SHEETS (32 LANGUAGES)**
The Ambersil.com website has 24/7 datasheet availability with no log in required. Every product has at least 32 language combinations for the SDS (Safety Data Sheet) ensuring safety around the world.

**MAINTENANCE CHEMICAL PROBLEM SOLVING**
In-house laboratory and development chemists are able to assist with any product and application enquiries from the simple through to chemically complex.

**R&D INNOVATION**
Dedicated in-house laboratory facilities with decades of experience in product development – part of the global CRC development network that shares ideas and research for rapid product solutions.

**UKCA & GHS/CLP COMPLIANT**
Regulatory compliance and forward planning ensure product availability and product safety in-line with prevailing UK and EU Directives. Ambersil has been recognised as ISO 9001 and ISO 14001 compliant for over 30 years.

**24/7 GLOBAL PRODUCT AVAILABILITY THROUGH STRATEGIC SUPPLY PARTNERS**
MRO products available to order when you want them, worldwide, via global distribution agreements.

**REGIONALLY BASED REPRESENTATIVES**
Ambersil covers the entire UK, with a team of factory trained Territory Sales Managers who are the first line of support for product information. International customers have dedicated brand specialists and account managers for full-services support.

**INNOVATIVE SOLUTIONS FOR AUDIT COMPLIANCE**
Specialist markets often require specialist solutions to compliment the product offering in-house marketing and research teams seek to develop new, true ‘added-value’ services that benefit users and contribute to audit compliance.

**MULTI-LANGUAGE CANS**
Product information is displayed on all products in 6 languages. Selected products feature our “peel and read” label that has 25 languages, allowing pan-European and trans-global distribution and use.

**FREE PRODUCT SAMPLES**
Ambersil is known for quality, reliability and trust; so why not give our products a trial with no obligation other than honest feedback? Don’t just rely on our expert product recommendations, try them out for yourself.
RISK REDUCTION MOBILE: REMOTE CHEMICAL ASSESSMENT

SAFETY
- Driving compliance
- Auto update SDS
- Audit trail
- Reduced site visitors

SUPPLY
- Inventory control
- Remove rogue ordering
- Consolidate orders

QUALITY
- No more duplication
- Best product for job
- 100% support from manufacturer
- Expert advice

TOTAL COST BENEFIT

3 EASY STEPS:

1 CONTACT:
Identify your customers’ use of maintenance chemicals, purchases and inventory control.

2 SUBMISSION:
Simply take a clear photograph of the products in the chemical cabinet or a chemical stores list, and use our Information Form to submit the enquiry.

3 48 HOUR GUARANTEE:
We will analyse your submission and reply with Safety, Supply and Quality recommendations.

WATCH THE VIDEO:
crcind.info/R2P2
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.

AUDIT COMPLIANT
EASY TO UNDERSTAND
INTEGRATES WITH EXISTING HACCP
HELPS PREVENT CONTAMINATION RISK
BASED ON PROVEN NSF CATEGORIES
UNIQUE, TRUE ADDED-VALUE SYSTEM
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!™

CRCIND.INFO/AMB_PermaLock
ONLINE, ON-DEMAND, ON YOUR TERMS
Discover the benefit of doing business with CRC online with the new CRC Web Store, sign up today!

24/7 ORDERING
LIVE STOCK CHECK
INSTANT PRODUCT INFORMATION
SECURE LOGIN
FAST-TRACK ORDER TEMPLATES
ORDER HISTORY
MULTI-BRANCH SUPPORT
PERSONAL SERVICE

INTRODUCTORY VIDEO:
crcind.info/AMBWebStoreVideo

SIGN UP:
crcind.info/AMBWebStore

webstore.crcind.com
A STEP BY STEP GUIDE

1. Navigate to www.ambersil.com
2. Click on the My Ambersil logo
3. Select the link “New User”
4. Fill in company details.
5. The unique log-in ID and password will be emailed to you.
6. Enter the log-in ID and password on My Ambersil.
7. Once logged in, select the country from the drop-down list at the top of the page. The complete list of Ambersil products will now be displayed - using the selection boxes on the right, both MSDS and TDS updates can be selected.
8. Please confirm your selection, My Ambersil instantly updates which boxes have been selected.
9. Once all products of interest have been selected, simply close your internet browser - the process is now finished.
10. If product selection needs to be modified, simply log-in to My Ambersil and change the update options (click on the My Ambersil logo to update email preferences).

If product selection needs to be modified, simply log-in to My Ambersil and change the update options (click on the My Ambersil logo to update email preferences).
We understand your reliance on quality and conformance, and value your trust in us to deliver. All Ambersil products undergo stringent quality control tests at every stage of product production.

Checks routinely performed during manufacture include:

1. **RAW MATERIAL TESTING**
   To confirm that all product ingredients are as specified

2. **BULK BLEND TESTING**
   All product batches are tested for conformance to predefined specifications before being filled into aerosol packs.

3. **FILLED AEROSOL TESTING**
   All filled packs are subjected to many performance and safety checks including:
   - Crimp checks
   - Labelling checks
   - Weight checks
   - Pressure checks

4. **WATER BATH TESTING**
   Every single aerosol we produce passes through a hot-water bath to assess pack integrity at elevated temperatures.

5. **STORAGE TRIALS**
   Prior to production, Ambersil products are tested for long-term storage and reliability trials - that’s why most Ambersil products have a shelf life of 6-years!

6. **PRODUCT SPECIFIC TESTS**
   Different product applications will require specific test criteria, such as accelerated corrosion testing, evaluation of release properties and material compatibility testing.

At Ambersil we recognise the need to minimise our impact on the environment so that future generations can benefit from our natural heritage.

Aerosols are recognised as one of the safest methods of storing and using maintenance chemicals due to the fact that they are hermetically sealed, eliminating spill risks and reducing environmental contamination potential.

All Ambersil aerosols have been CFC free since 1989 and we are continually innovating new procedures to minimise secondary impacts on the environment from office processes and other ‘behind the scenes’ activities.

- All Ambersil aerosols are manufactured with end-of-life disposal in mind
- All Ambersil steel tin-plate cans can be recycled
- All Ambersil boxes used for packaging and shipping are made from 100% recycled cardboard
- All aluminium aerosols can be recycled
- Plastic components may be separated & recycled

Ambersil is committed to managing its environmental performance, preventing pollution, ensuring compliance with all applicable environmental legislation. We strive to deliver continual improvement through the development, implementation and maintenance of an Environmental Management System that has been awarded the latest ISO 14001 certification.

All Ambersil products (including packaging) comply with directive 2002/95/EC on the Restriction of Hazardous Substances in electrical and electronic equipment (RoHS).
PRODUCT MODULE:

RELEVANT INFORMATION FOR PRODUCT SELECTION

The product modules have been designed specifically to assist in the research, comparison and selection of the products. With easy to understand information such as the innovative use of ‘attribute graphs’ that offer a simplified representation of the product, and a QR code that instantly links to the website product page for Safety Data Sheet (SDS) & Technical Data Sheet (TDS) download.

PRODUCT IMAGE
- Clearly shows what the actual product looks like, for easier recognition.

PRODUCT NAME
- Product name, as displayed on the front of the product.

APPLICATION TEXT
- Example(s) of how and where the product can be used. The bullet points emphasise a selection of the key features (more are available via the QR code).

APPROVAL ICONS
- Many products carry industrial, military, aviation, or other approvals. These icons identify approvals associated with the product.

AMBERCLENS

ANTI-STATIC FOAMING CLEANER
- Use to remove general grime and soiling on all surfaces. Particularly effective as a post-maintenance cleaner for removing finger marks and oil residues. Anti-Static formulation inhibits dust attraction.
  - Removes light oils, finger marks, and general grime.
  - Safe for use on plastics, metals, painted and glazed surfaces
  - Multiple industrial approvals: Rail, NATO, Ford, British Coal, Rolls Royce Aerospace

ATTRIBUTE GRAPHS
- The attribute graphs have been developed to be used as a simplified guide for comparing the key attributes of products, aiding product selection.

PRODUCT CODES/PACK SIZE
- Products are often available in multiple fill sizes, from aerosols to larger bulk packs. These product fill icons indicate the fill size and container type along with the relevant product code for each variant.

MULTI-LANGUAGE CANS
- Products variations with either 6 or 25 languages on the can. Not all products have both options.

QR CODE
- Scan with a smart phone or digital device with Internet access to view datasheets, compliance letters, and product videos.
CLEANERS

Remove dirt, grease & grime with the most comprehensive range of industrial maintenance cleaners and degreasers.

- Paint & Graffiti Remover
- Sugar Remover & Inhibitor FG
- GS5 Gasket Stripper
- Amberclens
- Amberclens FG
- Amberclens ME20
- Industrial Degreaser FG
- Abmersolv ABI
- Abmersolv SB1
- Amberklene ME20
- Industrial Degreaser FG
- Amberklene FE10
- Amberklene LO30
- Air Duster
- Invertible Air Duster
- Air Duster Extreme
- Precision Duster
- Stainless Steel Cleaner FG
- Ambertron
- Contact Cleaner FG
- Universal Screen Cleaner
- Lec-Klene
- NF Precision Cleaner IPA
- CCL 100 Freezer
- IPA
- Tough Wipes
- Hand Cleaning Wipes
- Degreaser
- Degreaser FG
- Solvent Degreaser
- Brake Cleaner
- Hard Surface Cleaner
- Label Remover
- Label & Adhesive Remover FG
# CLEANERS SELECTION CHART

## GENERAL CLEANING

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<td>HARD SURFACE CLEANER</td>
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<td>AMBERCLENS</td>
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<td>LABEL REMOVER</td>
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<td>LABEL &amp; ADHESIVE REMOVER FG</td>
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<td>SUGAR REMOVER &amp; INHIBITOR FG</td>
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AMBERCLENS

ANTI-STATIC FOAMING CLEANER
Use to remove general grime and soiling on all surfaces. Particularly effective as a post-maintenance cleaner for removing finger marks and oil residues. Anti-Static formulation inhibits dust attraction.
- Removes light oils, finger marks, and general grime.
- Safe for use on plastics, metals, painted and glazed surfaces
- Multiple approvals: Rail, NATO, Ford, British Coal, Rolls Royce Aerospace

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

AMBERSOLV AB1/FOAMING CLEANER

WATER-BASED CITRUS CLEANER
Water-based cleaner with added citrus power. Use to clean around gearboxes, pumps and for removing hydraulic oil leak residue.
- Removes difficult soiling such as: oil, grease residue, grime, silicone, water-based paints and inks/dyes
- Ideal as a post-maintenance cleaner or as a general cleaner for removing more stubborn soiling
- Biodegradable
- Removes bitumen residue & softens resins and some adhesives
- Approved for cleaning aircraft exterior surfaces

DEGREASER RTU

TOUGH WATER-BASED DEGREASER
Use to degrease components when a regular solvent cleaner cannot be used. Ideal for gearboxes, hydraulic systems, open gears, chains and pumps to remove a variety of soiling types.
- Removes tough, stubborn soiling such as heavy oil, grease, grime, silicones, wax and old lubricants
- Safe for use on most plastics, rubber and painted surfaces
- Contains a highly effective corrosion inhibitor to help prevent flash rusting
**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

**STAINLESS STEEL CLEANER FG**

**DUAL ACTION CLEANER AND POLISH**
For use on all types of stainless steel and other ‘shiny’ metals 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

**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

**HARD SURFACE CLEANER**

**WATER-BASED MULTI-SURFACE CLEANER**
An environmentally preferred Non-flammable product that can be used on all floors as a cleaner to remove oil, grime and common soiling types.
- Can be used on almost any hard surface: concrete floors, walls, doors, marble, duct-work, signs, terrazzo, and more
- Particularly effective on sealed warehouse flooring, vinyl corridor tiles, and canteen floors
- Can be used with hot or cold water
- Very economical in use
**MULTI-SURFACE DECONTAMINATION SPRAY**

### HIGH ALCOHOL MULTI-SURFACE CLEANER

Multi-Surface Decontamination Spray, is an extremely high alcohol content spray (>90% alcohol) which removes grime, finger marks and general soiling from hard surfaces, whilst combating common germs and viruses.

- >90% alcohol – maximum effectiveness
- Cleans & decontaminates surfaces
- Excellent materials compatibility
- Optimised spray pattern for effective coverage
- Can be used to clean PPE

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**GLASS CLEANER**

### FOR GLASS AND GLAZING

Use on all glazed and ceramic surfaces to remove light soiling and marks.

- Produces a smear-free and residue-free finish with minimal effort
- Incredible results, first time
- Automotive approval: Ford Tox No: 177057

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**MULTI-SURFACE POLISH**

### CLEANER AND POLISH FOR HARD SURFACES

Developed to cut through and remove industrial soiling which is often more tenacious than domestic dust/grime.

- Wax/silicone blend provides a durable, high gloss shine
- Pleasant fragrance leaves the area smelling fresh and clean
- Works rapidly to capture dust and grime for rapid “one-application” cleaning
- Use with Ambersil Engineers Wipes for best results

---

**UNIVERSAL SCREEN CLEANER FG**

### FOAMING VDU SCREEN CLEANER

Removes finger-marks and contamination from visual display units (VDUs) 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)
**PROFESSIONAL GRADE WORKSHOP HAND CLEANER**

Solvent-free hand cleaner with Aloe Vera, jojoba and environmentally-friendly abrasives. Formulated for engineering workshops and professional users. Rapidly removes lubricants, grease, tar, bitumen, most paints, grime and general soiling.

- Powerful performance yet mild on skin
- Easily removed with fresh water
- Does not contain alcohol or solvent
- Contains moisturising agents and biodegradable abrasives
- Exceptionally economical in use

**TOUGH WIPES**

High absorbency hand wipes over-layered with a polymer web for all the deep cleaning power of pumice in a handy wipe.

- Highly effective on a range of soiling types: adhesives, grease, oil, tar, silicone, resins, paints, and more
- No need for water or drying towels
- Dermatologically tested
- No contamination or lasting fragrance from heavy perfumes
- Combats common pathogens and decontaminates hands

**HAND CLEANING WIPE**

Use for cleaning light to moderate grime and oil from tools, hands, and equipment.

- Economical hand cleaning - 150 wipes per tub
- Keeps expensive hand tools clean
- Multi-purpose disposable wipes
- Combats common germs
- Excellent materials compatibility

**ENGINEERS WIPES**

High quality, extremely low lint dry wipes for use with all Ambersil solvents, cleaners, lubricants.

- Tear resistant and “non-linting”
- Suitable for use with all Ambersil products
- Excellent wet strength - resists tearing and can be reused
- Ideal for use on delicate surfaces: computer monitors, touch screens, LCD/plasma screens, and more
- Highly absorbent
- Large wipe size: 300mm x 320mm
**AIR DUSTER**

**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

**AIR DUSTER EXTREME**

**EXTREMELY POWERFUL LOW GWP DUSTER**
High powered, Non-flammable, duster that delivers an extremely powerful blast of ‘air’ to remove dry contamination.

- Extremely powerful ‘air’ blast
- Up to double the power of standard dusters
- Non-flammable (directive 2008/47/EC) & safer in use
- Instantly removes dry contamination
- Climate friendly, low GWP of 6

**PRECISION DUSTER**

**PRECISION DUSTER FOR USE WITH SEPARATE ADAPTOR**
High flow duster for use with separate jet-spray nozzle for the removal of dry contamination. Compatible with industry-standard duster attachments.

- Powerful duster for use with separate precision jet nozzle
- Non-flammable (directive 2008/47/EC) & safer in use
- Instantly removes dry contamination
- Climate friendly, low GWP of 6
- Fits other commercially available adaptors
- Brass jet nozzle eliminates potential for static build-up when used with anti-static wrist band

**INVERTIBLE AIR DUSTER**

**“ALL ANGLE” DUSTER FOR ELECTRONICS**
A powerful, dry ‘air’ blast for the removal of dry contaminants from electronics.

- Ideal for safety critical applications
- Invertible valve system virtually eliminates the potential for moisture contamination of delicate electronics
- Non-flammable (directive 2008/47/EC) & zero odour in use
- Does not contain CFC’s, HFC’s, and is non-ozone depleting
- 360° Spray System allows use at all angles
- GWP of just 6
**DUST REMOVER**

**NON-SAFETY CRITICAL DUSTER**
An economical duster developed to meet the market demand for a non-safety-critical duster:
- Ensure all equipment is de-energised and static electricity has been eliminated prior to use
- Powerful ‘air’ blast rapidly removes loose contamination
- Ideal for use on delicate electronics
- Does not contain CFC’s, HCFC’s, and is non-ozone depleting
- GWP of 3.5
- This product is flammable

**ANTI-STATIC SPRAY**

**DISSIPATES STATIC BUILD UP**
Use on any surface prone to static charge prior to maintenance, or as part of a static control programme.
- Rapidly reduces electrostatic charges
- Quick and easy to use
- Non-toxic and biodegradable
- Particularly useful in the paper and textile industries, and anywhere prone to airborne dust

**ULTRASONIC CLEANING FLUID**

**GENERAL-PURPOSE CLEANER**
Developed for use in ultrasonic baths, this cleaner removes all traces of contamination including oils, waxes, fluxes, and siloxes.
- Can be diluted 5:1 depending on level of soiling
- Effective in both hot and cold water

**FREEZER**

**FAULT DETECTION FOR ELECTRONICS**
Use on electronic circuits to identify thermally intermittent faulty components.
- Rapidly reduces component temperature by up to -50°C
- Non-flammable, non-toxic, and completely odourless
- Can be used to cool thermally sensitive parts during soldering or calibration
- Rail Approved product (007/020505)
- GWP of just 6
- Will also embrittles sticky substances such as chewing gum to aid removal
AMBERKLENE FE10

FAST-DRYING SOLVENT DEGREASER

Use for the general degreasing of machinery including chains, gears, bearings, drives, motors, and more.

- Powerful flushing action rapidly dissolves and removes contaminants
- Safe for use on all metals and most plastics
- Zero residue - perfect for surface preparation prior to bonding, painting, coating, or relubrication
- Fitted with the Ambersil 360° spray system for all angle use

AMBERKLENE ME20

HEAVY-DUTY SOLVENT

Formulated with a slower evaporation rate for longer contact time on heavy grease and old lubricant deposits.

- Removes heavy, old, and significant deposits of oil, grease, waxes and silicone
- Superior wetting properties ensures extended contact time and solvency performance
- Higher flash point of 41 °C for application safety
- Leaves a clean, dry, residue free surface

AMBERKLENE LO30

LOWER ODOUR SOLVENT DEGREASER

Use for general light degreasing on bearings, motors, gears and chains without the traditional odour associated with solvent degreasers.

- Safe for use on ferrous and non-ferrous metals, most painted surfaces, and most plastics
- Will not stress-crack acrylic
- Listed in British Airways 'Standard Practice' manual. Meets US Federal Spec. TT-N-958v Type 2; and is approved by Ford Motor Company (Tox: 166741)

BRAKE CLEANER

AUTOMOTIVE SOLVENT CLEANER

Use on all brakes and clutches to remove dust deposits, oil, grease, and other contaminants. Also removes anti-corrosion coatings on new brake discs prior to fitting.

- Reduces disc brake squeal and clutch chatter
- Can be used as a general-purpose degreaser
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

SOLVENT DEGREASER
WATER RINSALE DEGREASER
Use for engine and equipment degreasing which can be washed down, or for use in enclosed environments where vapours need to be minimised.
• Contains a highly effective emulsifier that enables dissolved oil/grease residues to mix with water for easy wash-off
• Higher flash point of 39°C for application safety
• Contains rust inhibitor to prevent flash rusting

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

LEC-KLENE
HIGH FLASH POINT SOLVENT DEGREASER
An advanced high flash point solvent degreaser for electronic and aviation components. The ultra-pure formulation delivers a good level of solvency power with excellent materials compatibility,
• A fast and effective general-purpose degreaser
• Higher flash point (>62°C) for application safety
• Use where DEF STAN 68-148 is specified
• No detrimental effect on painted surfaces, ferrous or non-ferrous metals, epoxy based composites, acrylic sheet, plastics, and rubber
AMBERSOLV SB1
CITRUS BASED SOLVENT DEGREASER
A solvent degreaser with added citrus power for use on grease and grime that may contain multiple contamination types.
- Effective on a wide range of soiling such as: oil, grease, tar, bitumen, silicones, rubber-based adhesives, oil-based paints, inks and dyes
- Safe for use on most plastics and all metals & cable insulation
- Military & Aviation approved
- Low toxicity, inherently biodegradable

FAST CLEAN 200/201
EXTRA FAST & POWERFUL SOLVENT
An advanced degreasing solvent that has both exceptionally fast-drying speed and very high solvency power.
- Removes heavy, old, and dried-on deposits of oil, grease, waxes and silicone
- Powerful flushing action rapidly dissolves and removes contaminants
- Non-chlorinated
- Zero residue

BA40 SOLVENT
AVIATION SPECIFIED SOLVENT CLEANER
Developed specifically for the demands of the aviation industry for a cleaner to remove uncured polysulphide sealant.
- Removes stubborn residues such as: adhesives, inks, resins, varnishes and lacquers
- Powerful solvent for excellent penetration but with rapid evaporation for maximum efficiency
- Low pressure spray provides an even coverage and prevents splash back in use
- Zero residue

PAINT & GRAFFITI REMOVER
POWERFUL PAINT REMOVER
A highly effective solution to the difficult problem of removing graffiti and old paint.
- Rapidly softens existing paint for easier removal prior to repainting with Ambersil Acrylic Paint or Galva Colour
- For use on hard, non-porous surfaces, test substrate compatibility prior to use
- Softens acrylic paint in 3 minutes, and softens tough paints in 10 minutes
**GASKET STRIPPER GS5**

**UNIVERSAL GASKET STRIPPER**
Removes in-place gaskets from gearboxes, drives, chain enclosures, and engines.
- Use to remove thread locking compounds, silicone sealant, and mastics
- Foaming formulation extends contact time and assists in gasket softening
- Fast acting: works in less than 20 minutes
- Reduces scraping and potential damage to surfaces

**LABEL REMOVER**

**SELF-ADHESIVE LABEL AND STICKER REMOVER**
An optimum blend of solvent and citrus active ingredients which will penetrate paper labels rapidly to soften the adhesive.
- Reduces the need for scraping and the potential damage that may cause
- Improves packaging line efficiency by reducing jamming caused by label and adhesive build-up
- Pleasant citrus smell
- Test plastics compatibility prior to use

**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 penetrate paper labels rapidly
- Use on packaging lines to remove label & adhesive build up
- Minimises the requirement for scraping

**CCL 100**

**3-IN-1 CONTACT CLEANER LUBRICANT**
A versatile product for use on electrical switchgear and electric motor contacts. Ideal for use on radar systems where contacts may be exposed to moisture.
- Cleans, lubricates, and prevents corrosion in one application
- Removes light oils, light grease, tarnish, and oxidation
- Cuts voltage drop between contacts
- Leaves an oily conductive film for contact protection and prevents arcing
AMBERSIL PRODUCT RANGE

AMBERTRON

ULTRA PURE CONTACT CLEANER
Ultra pure formulation for critical maintenance. Removes light oils and contamination safely from PCBs, relays, all electrical contacts, switches, and more.

- Excellent materials compatibility: safe for use on plastics, rubber, composites, metal and painted surfaces
- Non-conductive
- Quick and effective cleaning with zero residue
- Automotive approval: Ford Tox No: 166300 and Rail approved: 007/007224
- Will not produce frost

NF PRECISION CLEANER

NON-FLAMMABLE CONTACT CLEANER
An advanced solvent contact cleaner that is Non-flammable and ideal for servicing critical electronics that cannot be switched off or de-energised.

- Excellent materials compatibility: safe for use on plastics, rubber, composites, metal and painted surfaces
- Passes flame extension test FEA 607E and Drum test FEA 610E for genuine Non-flammable performance

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 & electronics
- Reduces voltage drop due to contamination
- Non-corrosive and non-conductive

IPA SOLVENT

ISOPROPYL ALCOHOL CLEANING SOLVENT
A gentle yet highly effective alcohol based cleaner for use on optical devices, switches, PCB’s and on general electronics.

- Excellent materials compatibility: safe for use on plastics, rubber, composites, metal and painted surfaces
- Conforms to BS 1595, ASTM D770, and DIN 53245
- Zero residue
- Removes moisture
LUBRICANTS, GREASES & OILS
From multi-purpose lubricants through to fully synthetic gear oils, Ambersil lubricants keep the wheels of industry turning.
## LUBRICANTS SELECTION CHART

<table>
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**AMBERSIL PRODUCT RANGE**
**40+**

**THE COMPLETE MAINTENANCE TREATMENT**
A true multi-purpose ‘cure-all’ for engineers: use as a dewatering fluid, a penetrant on seized fasteners, a general lubricant, and as a corrosion inhibitor:
- Excellent water displacement performance
- High dielectric strength, non-conductive film
- Safe on most paints, plastics, rubbers, and all metals
- Operational temperature range: -20°C to +115°C

---

**AGL I**

**LUBRICANT FOR ELECTRICAL EQUIPMENT**
Use to displace moisture and protect electrical contacts from corrosion.
- Ideal for renovating water-damaged equipment and motors
- Provides precision lubrication with its thin, high dielectric strength lubricating film
- Prevents electronic malfunction due to humidity, condensation or corrosion
- Displaces water, lubricates and protects

---

**PX24**

**MILITARY GRADE PROTECTIVE LUBRICANT**
Exceptional multi-purpose lubricant formulated to military specifications.
- Meets military specification Def. Stan 68-10 Issue 5 PX24
- Zero copper corrosion: IP 154, max 1: no pitting or etching
- Operational temperature range: -20°C to +115°C
- Rolls Royce Aerospace Approved: 1042E
- Leonardo Helicopters approved: WHPS: 158
- Fitted with a 360° Spray System for all angle use

---

**MOISTURE REMOVER FG**

**NSF REGISTERED Dewatering Fluid**
For use on equipment to displace moisture, particularly after wash-down. Ideal for use on electronics.
- NSF H1 registered (No.161243)
- Prevents corrosion by displacing water from affected areas
- Operational temperature range: -50°C to +120°C
**DIRECT CONTACT FOOD LUBE FG**

**3H & H1 LUBRICATING OIL**

Direct Contact Food Lube FG is an NSF registered 3H & H1 high performance, direct food contact release agent and extremely effective multi-purpose lubricant for use on food processing equipment where incidental food contact may occur:

- NSF registered: 3H and H1 (165196)
- Non-toxic, minimal odour, and safe for use in food production areas
- Use as an anti-stick release agent to prevent food adhering to surfaces
- Provides long-term, stable lubrication of moving parts
- Wide temperature resistance of -10°C to 120°C
- Protects against corrosion
- Does not contain silicone

**MULTI-LUBE**

**MULTI-PURPOSE LUBRICANT**

A versatile light lubricant for use by automotive professionals and for the maintenance of mechanical handling equipment.

- Use as a lubricant, penetrant, anti-corrosion spray or dewatering fluid
- Safe on most paints, plastics, rubbers, and all metals
- Operational temperature range: -20°C to +115°C
- Good water displacement properties

**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

**PENETRATING OIL**

**PENETRANT FOR SEIZED PARTS**

Use as a highly effective release agent for all types of seized fasteners.

- Quickly frees fasteners seized by corrosion, heat, and over-tightening
- Lubricates fine and close tolerance threads
- Contains MoS₂
- Facilitates easier disassembly & reassembly
- Softens rust and carbon deposits
- Exceptionally low surface tension lubricant
LUBRICANTS, GREASES & OILS

PENETRATING OIL FG

**NSF H1 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

RUST FLASH

**PENETRANT WITH FREEZE SHOCK ACTION**
For use on all seized and corroded fasteners. Ideal for bolts on equipment located outside and subjected to adverse conditions.
- Utilises the laws of thermo-dynamics: A 10 second burst will shock rust down to -40°C
- The rapid temperature drop causes the rust to fracture, allowing the lubricating oils to penetrate faster
- Ideal in automotive applications also frees corroded exhaust clamps

SILICONE LUBRICANT

**GENERAL-PURPOSE SILICONE LUBRICANT**
Use for plastic-to-plastic lubrication and as a highly effective friction inhibitor on chutes and slides. Ideal for use on tight plastic pipe fittings, or as a cutting aid on paper/textile blades.
- Odourless, colourless and non-staining
- Non-toxic and safe for use with potable water systems
- Exhibits excellent slip properties on blades, tables, chutes and conveyor guides
- Operational temperature range: -50°C to +200°C
- WRAS approved product: 1310510

SILICONE ANTI-STICK

**CONCENTRATED SILICONE LUBRICANT**
High concentration silicone lubricant for demanding applications with higher loads or increased speeds e.g. robotic picking lines, pallet conveyors guides, and close tolerance fitting of large bore water pipes.
- Odourless, colourless and non-staining
- Use where high standards of purity and performance are essential
- Helps prevent line jams and inhibits adhesive build up on blades and sealers
- Operational temperature range: -50°C to +200°C
- WRAS approved product: 1310510
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

AMBERGLIDE

SUPERIOR PTFE LUBRICANT
A general-purpose lubricating oil fortified with high levels of PTFE for exceptional lubrication and anti-friction properties.
- Provides a long-lasting and durable film
- Significantly increases re-lubrication intervals
- Operational temperature range: -10°C to +180°C
- Highly water resistant and repels water from treated areas

DRY FILM ANTI-STICK

CONCENTRATED DRY PTFE LUBRICANT
A concentrated, high PTFE content dry film lubricant for the lubrication of moving parts where an oily/wet or silicone lubricant cannot be used.
- The high level of PTFE in the dry film provides excellent anti-friction and slip performance to all sliding surfaces
- Excellent materials compatibility
- Suitable for use as an anti-tracking agent
- The dry film is unaffected by oil or solvents
- Operational temperature range: -100°C to +200°C

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
**LUBRICANTS, GREASES & OILS**

**DRY MOLY**

**DRY MOLYBDENUM DISULPHIDE LUBRICANT**
For use in high load applications where other lubricants would fail, but a dry film is still required. Use as a running in treatment on rolling and sliding bearings.
- Tough and long-lasting resin bonded lubricant
- Multiple applications (re-coating) provides enhanced performance, with the final coat benefiting from light polishing to further improve slip
- Operational temperature range: -150°C to +400°C

**COPPER ANTI-SEIZE PASTE**

**HIGH TEMPERATURE ANTI-SEIZE**
Use on threaded fasteners to prevent seizing during prolonged maintenance intervals, in hostile/high humidity environments, and areas subjected to high temperatures.
- Formulated with micronized copper and anti-oxidant additives to reduce friction and wear. Lead & Nickel free
- Good corrosion protection even in highly corrosive environments
- True copper paste exhibits much higher copper content than equivalent copper greases
- Operational temperature range: -30°C to +1100°C

**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

**GEAR & WIRE ROPE LUBRICANT**

**HEAVY-DUTY LUBRICANT**
Specially formulated for open gears in dusty environments (e.g. quarries) where the semi-dry film does not attract or hold dust. Use on all wire ropes subjected to tension and/or movement.
- Forms a semi-dry, non-peeling film that overcomes the limitations of grease and pressure cushions
- Can be applied to gears in motion
- Deep penetration of wire ropes for internal lubrication and corrosion protection
- Operational temperature range: -25°C to +100°C
CHAINSPRAY
CHAIN & DRIVE LUBRICANT
Use on all types of drive chains, including production line, door mechanisms, quarry plant, and drying oven doors.
- Offers maximum adhesion to chain link with excellent penetration, lubrication and corrosion protection of the pins
- High temperature resistant: up to 200°C continuous (300°C intermittent)
- Also available as an alternative product specifically for use on forklift trucks: “FLT Chain Spray”

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 37 for Gear Oil Super FG)

WIRE ROPE LUBRICANT
SEMI-FLUID WIRE ROPE GREASE
Designed for the lubrication and corrosion prevention requirements of wire ropes working under all conditions, particularly marine environments.
- Penetrates between the rope strands to provide internal lubrication and protection
- High solids content protects wire rope strands from high load and wear during service life
- NLGI grade 00

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
**LUBRICANTS, GREASES & OILS**

**AMBERSIL PRODUCT RANGE**

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**DRY GRAPHITE LUBRICANT & RELEASE SPRAY**

A high purity, dry, concentrated graphite lubricant and release agent. Formulated especially for the glass blowing industry as a mould pre-treatment.

- The resin binder allows the micro-graphite particles to bind strongly to all substrates
- Above 100°C the binder will safely decompose leaving dry graphite powder for the highly effective and consistent release of formed glass bottles

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**GRAPHITE RELEASE SPRAY**

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

---

**AMBERGREASE EXL**

EXTENDED LIFE, PERFORMANCE BEARING GREASE

Use on critical, high load bearings and sliding surfaces. Ideal for use in applications where a longer than usual in-service life is required.

- Exceptional load carrying capacity: >800Kg 4-ball weld load
- Mean Hertz Load: 125Kg; Timken OK load: 25Kg
- Highly visible red grease, NLGI type 2, Lithium-Calcium Complex thickened
- Operational temperature range: -30°C to +150°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

---
AMBERGREASE FG1

FOOD GRADE HIGH PERFORMANCE 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)
- Translucent NLGI type 2 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
**LUBRICANTS, GREASES & OILS**

### WHITE SPRAY GREASE
**MULTI-PURPOSE SPRAY GREASE**
Ideal for use on vehicle door hinges, on runners, guides, and for assembly of close tolerance parts.
- Multi-purpose white grease in an aerosol
- Good penetration for even coverage and protection
- Operational temperature range: -10°C to +120°C

### AMBERGREASE SIL
**PURE SILICONE GREASE**
Ideal for electric motor spindle lubrication or to protect electronics from atmospheric moisture.
- Clear, colourless, odourless NLGI type 2 grease
- Suitable for waterproofing all types of electrical systems
- Excellent dielectric resistance
- 4-ball weld load of 200Kg
- Operational temperature range: -50°C to +220°C

### AMS4 SILICONE GREASE
**MILITARY GRADE SILICONE GREASE**
Military & aviation grade XG250 silicone grease for use on rubber seals to prevent cracking, on 3-phase connectors to prevent moisture ingress and for general lubrication.
- Insulates high voltage parts against leaking and arcing
- Waterproofs electronics in damp or humid conditions
- Meets military and aviation specifications: Def. Stan 68-69/1

### SEMI-SYNTHETIC OIL
Lubricating Oil FG (100 cSt) is a multi-functional, premium, lubricating oil, that has good anti-corrosion properties, excellent material compatibility, good foam control characteristics and high shear force stability.

- **NSF H1 REGISTERED:** 143788
- **VISCOSITY @ 40°C:** 100
- **TEMPERATURE RANGE:** -18 to +215
- **VISCOSITY INDEX:** 105
- **FILL & CODE:** 1031274 31617-AA
FULLY SYNTHETIC OILS

A series of transparent, odourless, fully synthetic lubricating oils based on Poly Alpha Olefins (PAO) for use in the food & beverage sector. These oils have extremely stable operating characteristics with a wide temperature range, foaming suppression, friction/wear reduction, and moisture rejection. Passes DIN 51524/72 standard. ISO 32 can be used as a compressor oil.

FILM VISCOSITY
TEMPERATURE RESISTANCE
STABILITY (VI)
MATERIALS COMPATIBILITY

HYDRAULIC OIL SUPER 32 FG
No. 142717
ISO 32
Viscosity Index: 142
-57°C to +238°C

1030516
30265-AA

MATERIALS COMPATIBILITY
STABILITY (VI)
TEMPERATURE RESISTANCE
FILM VISCOSITY

GEAR OIL SUPER 150 FG
No. 142715
ISO 150
Viscosity Index: 137
-56°C to +256°C

1030519
30271-AA

MATERIALS COMPATIBILITY
STABILITY (VI)
TEMPERATURE RESISTANCE
FILM VISCOSITY

NSF H1 REGISTERED:
VISCOSITY @ 40°C:
TEMPERATURE STABILITY:
TEMPERATURE RANGE:
FILL & CODE:

HYDRAULIC OIL SUPER 46 FG
No. 142716
ISO 46
Viscosity Index: 145
-57°C to +252°C

1030517
30267-AA

MATERIALS COMPATIBILITY
STABILITY (VI)
TEMPERATURE RESISTANCE
FILM VISCOSITY

GEAR OIL SUPER 220 FG
No. 142721
ISO 220
Viscosity Index: 140
-51°C to +258°C

1030522
30274-AA

MATERIALS COMPATIBILITY
STABILITY (VI)
TEMPERATURE RESISTANCE
FILM VISCOSITY

NSF H1 REGISTERED:
VISCOSITY @ 40°C:
TEMPERATURE STABILITY:
TEMPERATURE RANGE:
FILL & CODE:
HALAL CERTIFIED PRODUCTS
Certification Reference: AN001183

LUBRICANTS

- Silicone FG
  - 1030499
  - 30248-AA
- Chain Lube FG
  - 1030499
  - 30245-AA
- Penetrating
  - 1030526
  - 30278-AA
- Moisture
  - 1030507
  - 30256-AA
- Machine Oil FG
  - 1032673
  - 33223-AA
- Direct Contact
  - 1030497
  - 30255-AA
  - 1030505
  - 31367-AA

GREASES

- Amber Grease FG1
  - 1031029
  - 31084-AA
- Amber Grease FG2
  - 1031031
  - 31085-AA
- Amber Grease FG3
  - 1030511
  - 30258-AA
- HI-Load Lube FG
  - 1031177
  - 31966-AA
- Food Grease FG
  - 1030513
  - 32019-AA

DRY LUBE

- Dry PTFE Lube FG
  - 1031037
  - 31589-AD
- 3H Oil FG
  - 1031398
  - 32226-AA
  - (ISO 17)
- Hydraulic Oil FG
  - 1030516
  - 30265-AA
  - (ISO 46)
- Gear Oil ‘Super’ FG
  - 1030519
  - 30272-AA
  - (ISO 150)
- Lubricating Oil FG
  - 1030522
  - 30274-AA
  - (ISO 220)

BULK OILS

- Assembly Paste FG
  - 1030509
  - 30257-AA
- Belt Dressing FG
  - 1031034
  - 31587-AD
- Sugar Remover
  - 1032646
  - 33294-AA
  & Inhibitor FG

SPECIALTY

- Silicone Release FG
  - 1031458
  - 32454-AA
- Non-Silicone
  - 1031452
  - 32446-AA
  Release FG
- Ejector Pin
  - 1030973
  - 31549-AC
  Lubricant FG

RELEASE AGENTS
METAL WORKING
Created for the most demanding metal working applications where ‘right first time’ results are required.
## Tufcut: Liquid / Spray / Foam / Compound / Aqua

Tufcut is a range of specialist metal cutting lubricants based on a mixture of lubricants, extreme pressure additives, and antioxidants. The range has been formulated to offer instant, ready to use metal machining products that demonstrate exceptional performance in demanding applications.

### Tufcut Liquid

**Metal Cutting Lubricant**
- Original Tufcut liquid
- Improves heat dissipation prevents chip welding
- Approved by Leonardo Helicopters for machining composite materials (LIS 6045)

### Tufcut Spray

**Metal Cutting Lubricant**
- The original Tufcut liquid, in an aerosol
- Allows heavier close tolerance cuts
- Improves heat dissipation and prevents chip welding
- NSF H2 Registered

### Tufcut Foam

**Foaming Metal Cutting Lubricant**
- Proven Tufcut liquid in a foam that clings to vertical surfaces
- Ideal for maintenance of turbine blades
- Minimal smoking & fumes in use

### Tufcut Compound

**Metal Cutting Lubricant**
- A traditional metal cutting paste that has all the performance of Tufcut liquid, in a paste
- Pleasant mild pine fragrance
- Ready to use straight from the tin

### Tufcut Aqua

**Water Soluble, Semi-Synthetic Cutting Fluid**
- A premium quality, multi-purpose cutting fluid for use in automated applications
- Transparent - allows operators to see workpiece
- Contains cleaning and degreasing surfactants

### Metal Working Selection Chart

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<td>Food Processing Safe®</td>
<td>Traditional Liquid</td>
<td>TUF CUT LIQUID</td>
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### Welding

- **Anti-Spatter**
  - Traditional
  - Solvent-based Biodegradable
  - Water-based

### Flaw Detection

- **Dye Penetrant System**
- **Leak Detection**

---

**FOOD PROCESSING SAFE**
**SPATTER RELEASE**

**NON-FLAMMABLE WELD ANTI-SPATTER**
Traditional solvent-based spatter release for all welding applications.
- Prevents spatter adhesion to welding equipment, work pieces, surfaces, jigs, and surrounding areas
- Non-flammable
- Does not affect post-welding operations
- No silicone
- Anti-spatter film is easily wiped away

**BIOWELD**

**WATER-BASED WELD SPATTER RELEASE AGENT**
A water-based spatter release agent which gives exceptional results without the use of harmful solvents, silicones or mineral oils.
- Odourless, Non-flammable and safe in use
- Fine spray pattern for excellent coverage
- Does not contain silicone or solvents
- Contains a highly effective flash-rust inhibitor
- Automotive approval: Ford Tox No.: 163241

**EASY WELD**

**BIODEGRADABLE ANTI-SPATTER**
Easy Weld provides a quick, easy way to prevent the adherence of spatter to metal surfaces and eliminates the requirement for chiseling, grinding or extensive wire brushing after welding.
- Non-silicone heat resistant barrier
- Easy removal of spatter
- Economical in use due to thin film performance
- Based on biodegradable oil
- Keeps treated nozzles and equipment clear from spatter build-up

**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
**FLAW DETECTOR: CLEANER 1**

**SOLVENT CLEANER FOR PREPARATION**

A fast-drying cleaner for the removal of all kinds of contaminants on the surface to be inspected. Serves as a preparation of the surface before inspection with dye penetrant.

- Rapid dry, solvent cleaner
- Leave surfaces clean & dry
- Removes contamination including; metal working fluid, anti-corrosion coatings, oil & grime

**FLAW DETECTOR: PENETRANT 2**

**DYE PENETRANT FOR FLAW IDENTIFICATION**

Red coloured, water washable penetrant for non-destructive testing of metal surfaces. The penetrant wicks into tiny flaws within 10 minutes. Excess penetrant should be removed before using the developer.

- Highly visible red dye
- Wicks in to defects down to 20μm
- Very easy to use & cost effective

**FLAW DETECTOR: DEVELOPER 3**

**HIGH CONTRAST POWDER DEVELOPER**

Enhances and makes each trace of Penetrant visible once applied and left for at least 7 minutes. Post cleaning of the inspected area can be done with the Cleaner.

- High contrast and easy to use
- Identifies defects as small as 20μm
- Easily removed with the ‘cleaner’

**HOW TO USE THE FLAW DETECTOR RANGE**

1. The area to be checked must be thoroughly cleaned. Liberally apply Flaw Detector Cleaner; allow to dry.
2. Spray a light, even film of penetrant on surface. Allow to penetrate for 10 to 20 minutes.
3. Wipe excess Penetrant off with a lint-free cloth dampened with Flaw Detector Cleaner. Allow cleaner to evaporate.
4. Shake the can of Developer thoroughly prior to use. Apply a light, homogeneous coating from a distance of about 20cm. Avoid any excess as it may mask the finest flaws. Allow to develop for at least 7 minutes.
5. Defects appear as red spots or lines on a white background. The speed of appearance, the shape and dimensions can give information on the nature of the defects. Clean the test area with Flaw Detector Cleaner.
6. If necessary, apply an anti-corrosion product, such as: Ambersil Corrosion Inhibitor.
ANTI-CORROSION & PAINTS
Superior coatings for metal that prevent corrosion and allow aesthetic repair of damaged surfaces.
ANTI-CORROSION & PAINTS SELECTION CHART

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<td>Direct To Rust</td>
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PAINT MARKER PENS

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<th>RECOMMENDED PRODUCT</th>
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<td>MARKER PENS</td>
<td>49</td>
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</table>

ACRYLIC PAINT

COLOUR MATCHED PROTECTIVE COATINGS
Vibrant acrylic paint for the repair and touch-up of painted surfaces.
- RAL matched for accurate colour matches
- Fast-drying: touch dry in <5 minutes
- Once cured (24-hours) the paints have a high UV resistance
- Excellent flexibility and hardness
- Excellent adhesion to all surface types

<table>
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<tr>
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<th>RAL</th>
<th>CODE</th>
<th>LEGACY</th>
<th>COLOUR</th>
<th>RAL</th>
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<td>32060-AA</td>
<td>Bright Yellow</td>
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<td>Rittal Grey</td>
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<td>1030283</td>
<td>20195-AA</td>
<td>Chrome Silver</td>
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<td>1030348</td>
<td>20555-AA</td>
<td>Grey Primer</td>
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<td>JCB Yellow</td>
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<td>1030350</td>
<td>20556-AA</td>
<td>Red Oxide Primer</td>
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<td>Massey Fergusson Red</td>
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<td>John Deere Green</td>
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<td>1030353</td>
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<td>Belle Orange</td>
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</tbody>
</table>
ANTI-CORROSION & PAINTS

COLD GALVANISE

ZINC RICH PROTECTIVE COATING
Provides cathodic protection to ferrous metals. Ideal for pipes, housings, structural metal, and as a primer. Particularly suited for protecting drilled or abraded surfaces.

- Sacrificial coating protects ferrous metal from corrosion
- For use on bare, clean, non-rusted steel and seams
- Suitable for use as a renovation media; BS EN ISO 1461:1999
- >99% pure zinc at 88% concentration in the cured film for the optimal balance between protection and adhesion

REP pairs for HOT-DIP GALVANISED STEEL
Aesthetic anti-corrosion paint for freshly galvanised steel — weathers at the same rate for ‘invisible’ repairs.

- A barrier coating that protects ferrous metals from corrosion
- For use on bare, clean, non-rusted steel and seams
- Long-lasting corrosion protection
- Suitable as a top-coat for Cold Galvanise

RAPID DRY GALVA

VERY FAST-DRYING PROTECTIVE COATING
Exceptionally fast-drying anti-corrosion paint that matches the finish of recently hot-dip galvanised steel. With an optimal blend of adhesive resin binders, opacity enhancers, metallic pigments and zinc phosphate; ‘Rapid Dry Galva’ delivers long-lasting corrosion prevention to cut, drilled, and damaged galvanised steel.

- Rapid drying time: touch dry in 2 mins/hard dry in 20 mins at 20°C
- Excellent colour-match for recently/shiny hot-dip galvanised steel
- Effective protection against corrosion (tested to ASTM B117)
- Excellent substrate adhesion & flexibility (tested to ISO 2409:0)

GALVANISING ZINC RICH

HIGH TEMPERATURE, RAPID DRYING PAINT
Use on metals subjected to intermittent high temperatures such as foundry lifting shackles, gantry arms and cranes.

- Touch dry in 15 minutes, complete cure in 24-hours
- Leaves a hammered semi-gloss finish
- The cured film can be welded through (except argon)
- Temperature range: -50°C to +550°C
- Use Amberkleme FE10 fast-drying solvent degreaser as the ideal surface preparation for best results
**GALVA SHINE**

AESTHETIC PROTECTIVE COATING  
Offers an exact colour match to architectural hybrid zinc alloy galvanised structures.  
• Resists weathering, retains a super bright finish  
• Adheres strongly to metal offering a long-term barrier protective coating  
• Superior spray pattern ensures a blemish free, smooth finish  
• Use Amberkleene FE10 fast-drying solvent degreaser as the ideal surface preparation for best results

**CORROSION INHIBITOR**

WAXY ANTI-CORROSION TREATMENT  
Use on ferrous metals as a long-term protective coating for stored equipment, or as a transportation film for trans-global component shipping.  
• Film will not harden or crack  
• Forms a ‘self-repairing’ waxy film  
• Meets MIL-PRF-16173E  
• Can be used as an anti-seize/anti-rust treatment for fasteners  
• Will not stain or mark components

**BATTERY TERMINAL PROTECTOR**

ANTI-CORROSION TERMINAL TREATMENT  
Protects battery terminals on forklift trucks and generators from wear and corrosion and seals out moisture.  
• Protective grease prevents wear to terminals through clip movement  
• Highly visible dye gives an early indication of acid leakage by changing from pale yellow to red  
• Viscous consistency prevents over application  
• Excellent materials compatibility  
• Operational temperature range: -10°C to +50°C

**ALU HI-TEMP**

HIGH TEMPERATURE CORROSION PROTECTION  
Use on furnace doors, boiler casings, drying ovens, foundry manipulators and equipment subjected to continuous high temperatures; chimneys, flues and exhausts.  
• Protects to +600°C  
• Lead and Chromate free  
• Cures to a highly durable coating  
• Effective barrier against corrosion
**INOX 200**

**PROTECTIVE COATING FOR STAINLESS STEEL**
Use on glass-pearl-blasted stainless steel as a touch-up paint.
- Touch dry in 10 minutes, complete cure 30 minutes
- Heat resistant up to +300°C
- Flexible yet hard dry film
- Contains chromium: the active corrosion inhibitor in stainless steel

**ZINC PRIMER**

**MULTI-PURPOSE METAL PRIMER**
Zinc phosphate primer promotes adhesion of top-coat paint to ‘difficult’ substrates.
- Touch dry in 30 minutes
- Dry to over-coat in 1 hour (recommended 24-hour cure prior to over-painting)
- Best results achieved when the surface has been cleaned with Amberkleene FE10 prior to application

**ACRYLIC CONFORMAL COATING**

**PROTECTION FOR PCB’S**
Apply to populated PCB’s and electronics to seal out moisture and dust for long-term protection.
- Transparent insulating conformal coating
- Wets out to form a homogenous film with uniform thickness
- Cured lacquer is flexible, will not crack or chip and can be soldered through

**SV100**

**ANTI-TRACKING INSULATING VARNISH**
Specifically developed to protect electric motors.
- Insulates and protects all types of electrical systems against high humidity
- Highly visible red varnish
- Dries rapidly: touch dry in 15 minutes, handling time in 40 minutes, and full cure within 48 hours
- When cured, the film conforms to BS 5629 type 1.1
MARKER PENS

ACRYLIC PAINT MARKER PENS
Can be used for metal working/fabrication, electrical installations, civil engineering, steel stock identification, batch number marking and more.

- Tenacious resin binds paint to the surface, effectively eliminating the problems associated with accidental rub off and abrasion
- Can write through water/moisture and will not wash off with water or rain
- Fast-drying

GALVA COLOUR

2-IN-1 PRIMER AND COLOUR
TOP COAT
Use on surfaces which have surface rust, old paint or otherwise ‘imperfect’ finish.

- Reduces time spent priming and painting the top-coat: do it in one application
- RAL colours for accurate colour matches
- Free from lead, chromate and toluene
- Ideal for external pipe-line identification, railings, security fences, and storage tanks
- Excellent coverage: up to 3m² from one 500ml can

COLOUR | CODE | LEGACY
---------|------|--------
White    | 1030328 | 20394-AA
Red      | 1030323 | 20387-AA
Green    | 1030315 | 20379-AA
Orange   | 1030319 | 20383-AA
Yellow   | 1030334 | 20399-AA
Black    | 1030304 | 20364-AA
Blue     | 1030310 | 20368-AA

Colour squares are representative only

COLOUR | RAL | CODE | LEGACY
-------|-----|------|--------
Yellow | 1004 | 1030387 | 20673-AA
Red   | 3000 | 1030389 | 20674-AA
Blue  | 5012 | 1030392 | 20676-AA
Black | 9005 | 1030394 | 20679-AA
Silver | 9006 | 1030396 | 20680-AA
White | 9010 | 1030399 | 20681-AA

Colour squares are representative only

PRODUCT NAME | CODE | LEGACY
-------------|------|--------
Evapo-Rust ready to use 1L | 1040357 | 33399-AA
Evapo-Rust ready to use 5L | 1032768 | 33400-AA
Evapo-Rust ready to use 20L | 1040700 | 33401-AA
Evapo-Rust ready to use 200L | 1040701 | 33407-AA
Evapo-Rust ready to use 900L | 1040702 | 33408-AA
ADHESIVES & SEALANTS

Essential bonding, adhesion, and gasketing products for industrial maintenance.

5024A SILICONE ADHESIVE SEALANT

HIGH MODULUS, ACETOXY CURE SILICONE SEALANT

A ready to use one part silicone sealant suitable for use as a general-purpose sealing and bonding agent. Ideal for making formed-in-place gaskets.

• Offers excellent adhesion to a wide variety of non-porous substrates such as glass, glazed ceramics, aluminium and metal
• Conforms to ISO 11600
• High modulus & non-slump
• Temperature resistance: -60°C to +204°C

<table>
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<tr>
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<th>CODE</th>
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<tbody>
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<tr>
<td>Silver Grey</td>
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</tbody>
</table>

310ml Colour squares are representative only

5005A SILICONE ADHESIVE SEALANT

HIGH MODULUS, ACETOXY CURE SEALANT

A ready to use one-part RTV silicone sealant suitable for use as a general-purpose sealing and bonding agent. Ideal for making formed-in-place gaskets.

• Excellent adhesion to a wide variety of non-porous substrates
• Maximum temperature resistance: +204°C
• Portable 75ml squeezy tube with cap
• Conforms to ISO 11600
• High modulus & non-slump

1031079 51644-AB
### ADHESIVE HS 300

**HIGH STRENGTH ADHESIVE**
Use where a high strength adhesive is required e.g. warning and information signs.
- Tack time less than 10 minutes
- Free from chlorinated solvents for improved user safety
- Sheer strength: >375 N per inch (25 mm²)
- Big value 500ml fill size

![ADHESIVE HS 300](image)

**STRENGTH OF BOND**
- CURE TIME
- TEMP. RESISTANCE
- CHLORINATED SOLVENTS

### ADHESIVE MP 100

**MULTI-PURPOSE ADHESIVE**
Ideal for bonding almost anything to most hard surfaces including wood and metal.
- Tack time approximately 30 seconds
- Permanent bonds
- Our best selling adhesive
- Big value 500ml fill size

![ADHESIVE MP 100](image)

**STRENGTH OF BOND**
- CURE TIME
- TEMP. RESISTANCE
- CHLORINATED SOLVENTS

### ADHESIVE NC 500

**NON-CHLORINATED ADHESIVE**
Use where a non-chlorinated multi-purpose adhesive is required.
- Tack time approximately 2 to 4 minutes
- Free from chlorinated solvents for improved user safety
- Variable spray pattern
- Big value 500ml fill size

![ADHESIVE NC 500](image)

**STRENGTH OF BOND**
- CURE TIME
- TEMP. RESISTANCE
- CHLORINATED SOLVENTS

### ADHESIVE QS 900

**QUICK STICK ADHESIVE**
Especially useful where instant grab is required to avoid slippage.
- Tack time approximately 30 seconds
- Free from chlorinated solvents for improved user safety
- Instant grab and hold
- Big value 500ml fill size

![ADHESIVE QS 900](image)

**STRENGTH OF BOND**
- CURE TIME
- TEMP. RESISTANCE
- CHLORINATED SOLVENTS
POLYMER PROCESSING

Release agents, protectives, cleaners and compounds for all types of plastics, rubbers, and composites moulding operations.

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## AMBERSIL PRODUCT RANGE

### POLYMER PROCESSING SELECTION CHART

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<th>PRODUCT TYPE</th>
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<th>CHARACTERISTICS</th>
<th>RECOMMENDED PRODUCT</th>
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<td>Thermoplastics &amp; Rubber</td>
<td>Medium Duty</td>
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<td>FORMULA 6</td>
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<td>Non-transfer</td>
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<td>Light Duty</td>
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<td>FORMULA 8</td>
<td>54</td>
</tr>
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</table>

| **NON-SILICONE** |                         |                 |                     |      |
| Thermoplastics   | Heavy-duty               |                 | FORMULA 7           | 56   |
| Thermoset, PU, Epoxy, PE | Dry Film |                     | FORMULA 10          | 56   |
| PVC, PU & Flexible Polymers | Wet Film |                    | FORMULA 4           | 56   |
| Electronic ‘Grade’ Polymers | Minimal Transfer |                     | FORMULA 11          | 57   |
| LDPE, HDPE, PP, PVC, PS, POM, PA | Multiple Releases |                     | FORMULA 14          | 57   |
| Thermoplastics   | General-purpose          |                 | NO-SIL RELEASE      | 58   |
| Fine Details Thermoplastics | Medium Duty, Dry Film |                     | FORMULA 5           | 56   |
| Synthetic Rubbers, PP, PE | Semi-Permanent |                     | FORMULA 12          | 57   |
| GRP, Epoxy, PE, Rotational | Semi-Permanent |                     | RELEASE 100         | 58   |

| **SPECIALIST** |                         |                 |                     |      |
| General-purpose | Water-based Silicone    |                 | MPR 100             | 58   |
| Rotational Moulding | Water-based Semi-Permanent |                 | ROM 300             | 59   |
| GRP, High Gloss | Wax                     |                 | COM 300             | 59   |
| Composites (inc: Boron, Amide, & Carbon) | Semi-Permanent |                     | RELEASE 100         | 58   |
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| Rigid Insulation & Semi-Rigid PU | Solvent-based | Allows Post-Process Painting | PUR 300 | 59   |
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| **FOOD & BEVERAGE PACKAGING** |                         |                 |                     |      |
| Mould / Packaging Release (Food Contact) | Silicone |                     | SILICONE RELEASE FG | 55   |
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|                         |                        |                     | CLEAR MOULD PROTECTIVE | 61   |

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| Heavy-duty Specialist |                        |                     | MOULD SOLV | 62   |
|                         |                        |                     | POLYMER REMOVER | 61   |
|                         |                        |                     | POLYESTER MOULD CLEANER | 62   |

**CLEANERS**

**LUBRICANTS**

**METAL WORKING**

**ANTI-CORROSION**

**ADHESIVES / SEALANTS**

**POLYMER PROCESSING**

**FOOD PROCESSING SAFE**

**AMBERSIL PRODUCT RANGE**

53
FORMULA 6

MEDIUM DUTY SILICONE RELEASE AGENT
A general-purpose release agent for all thermoplastics and many types of rubber. It is highly versatile as a release agent, ensuring accurate mould detail and improving surface finish without building up in the mould.
- Improves surface finish, minimises imperfections, and enhances even well polished tool release properties
- Operational to +200°C
- Can also be used as an anti-stick agent in the textile, foam converting, printing, and shoe industries

FORMULA 1

HEAVY-DUTY SILICONE RELEASE AGENTS
Heavy-duty, high silicone concentration, mould release agent available as either a ‘regular’ or ‘high temperature’ version.
- Operational temperature up to +200°C for regular version
- Automotive approved: Ford Tox No.: 168735
- Formula 1 HT is a highly effective spinneret lubricant for use in the manufacture of synthetic fibres
- “HT” Version: +200°C continuous, +300°C intermittent

FORMULA 2

SILICONE RELEASE AGENT FOR RUBBER
A medium duty, silicone-based release agent formulated to release natural rubber and polymers with lower melt temperatures.
- A wet silicone film for the release of moulded rubber parts
- Provides an improved surface finish and will not build up in the mould
- Operational to +200°C
- Particularly effective for use in the tyre industry
- A versatile release agent

FORMULA 8

LIGHT DUTY, SILICONE MOULD RELEASE AGENT
Light duty, silicone mould release agent that provides a highly effective release for plastic and rubber moulding.
- Especially suitable for fine detail and precision mouldings
- Use for injection moulding, compression moulding, and vacuum forming processes
- Suitable for wax pattern release in investment casting
PAINTABLE SILICONE RELEASE AGENT
Specialist mould release agent based on a unique active material that allows post-moulding operations e.g. coating, painting, plating, and adhesion.
- No oily film - reduces the requirement to clean
- Effective on a wide variety of materials including: ABS, Polyethylene, Polypropylene, PVC, Polyamides, and Polyurethanes
- Removes the need to wax wash drying investment casting

FOOD GRADE SILICONE RELEASE AGENT
A high purity silicone release agent for packaging and moulding operations within the food/beverage sector.
- NSF registered M1
- Suitable for use as a mould release agent (NSF M1) and packaging machine anti-stick oil (NSF H1) where the finished article will have direct to food contact
- Maximum Operational temperature: +200°C
- Totally clean, clear, and non-staining ‘wet’ film

GENERAL-PURPOSE SILICONE MOULD RELEASE
A wet film, general-purpose silicone release agent with excellent anti-stick and slip properties. Particularly suited to injection moulding.
- A clean, colourless, odourless release agent
- Leaves an oily, heavy-duty silicone film for multiple releases
- Operational to +200°C
- Excellent materials compatibility

SILICONE RELEASE AGENT FOR PU
A silicone release agent that has been specifically formulated to provide a fine release film for use with integral skin and elastomeric polyurethanes.
- High quality, high gloss, even finish
- Fine spray pattern for excellent coverage
- Low odour
- No build up on mould surface - suitable for use on low temperature mouldings
- Operational to +200°C
FORMULA 5

MEDIUM DUTY, NON-SILICONE RELEASE AGENT
A medium duty, dry film, non-silicone mould release agent that provides an excellent release for all types of thermoplastics, some thermosetting plastics, silicone rubber, and most other rubber types.
- Will not interfere with post moulding treatments such as painting, printing, bonding, or plating
- Does not build up in the mould
- Operational to +150°C
- Automotive approval: Ford Tox No: 174011

FORMULA 4

NON-SILICONE RELEASE AGENT FOR PVC
Excellent release for PVC, Polyurethane elastomers, and other flexible polymers. Ideal for the release of moulded shoe soles.
- A wet film mould release that imparts a gloss finish to moulded parts
- Will not interfere with post moulding operations
- Does not build up in the mould
- Operational temperature to +200°C
- Passes crib source 5, Furniture & Furnishings (Fire Safety) Regulations 1988

FORMULA 7

HEAVY-DUTY, NON-SILICONE RELEASE AGENT
A wet film, non-silicone release agent that provides excellent release on a wide range of thermoplastics and rubbers.
- Will not interfere with post-moulding operations such as painting, bonding, plating, or printing
- Does not build up in the mould
- Operational temperature up to +170°C
- Utilises fluorinated resins as the active release component

FORMULA 10

DRY FILM, NON-SILICONE RELEASE AGENT
Highly effective release agent for thermosetting plastics. Provides excellent release properties on polyurethanes, epoxy resins, and polyesters.
- Will not interfere with post-moulding operations such as painting, bonding, plating, or printing
- Release agent does not build up in the mould
- Operational temperature to +180°C
- Utilises fluorinated resins as the active release component
FORMULA 11

MINIMAL TRANSFER NON-SILICONE RELEASE AGENT
Suitable for ‘electronic’ grade polymer types. A non-silicone release agent with an ultra-thin, dry film, ideal for use with polymers such as Polycarbonate, ABS and HIPS (high impact styrene).
- Will not interfere with post moulding treatments such as painting, printing, bonding, or plating.
- Operational temperature to +150°C

FORMULA 12

SEMI-PERMANENT NON-SILICONE RELEASE
Non-silicone release agent formulated to release a wide variety of synthetic rubbers and many thermoplastics such as polypropylene & polyethylene.
- Forms a thin, inert and thermally stable coating from which multiple releases can be expected
- Fast cure time
- Moulding can commence 5-10 minutes after application
- Operational temperature to +250°C

FORMULA 14

NON-SILICONE RELEASE AGENT
Non-silicone release agent specifically developed for the release of thermoplastics: LDPE, HDPE, PP, PVC, PS, POM, PA.
- Excellent release properties in a durable film
- Operational temperature up to +200°C
- Multiple releases per application can be achieved giving improved economy in use
NO-SIL RELEASE

GENERAL-PURPOSE NON-SILICONE RELEASE AGENT
Provides a wet, heavy-duty film for the release of plastic and rubber parts.
- Allows decorative treatment of the moulded part (e.g., Painting)
- For use in injection moulding, vacuum forming and many other forming processes
- Operational temperature to +170°C

RELEASE 100

SOLVENT-BASED SEMI-PERMANENT RELEASE
Specifically formulated to give multiple releases of a wide range of fibre reinforced polymers (including epoxy).
- Low odour and easy to apply
- Fast room temperature cure for maximum productivity
- High gloss & high slip
- Non-transferring film will not interfere with post moulding operations such as bonding, plating, coating, or labelling
- Highly versatile for use in many moulding operations

DP 200

SEMI-PERMANENT SILICONE RELEASE AGENT
A silicone resin based, air-curing, highly durable, dry film, semi-permanent release coating.
- Formulated for moulding processes where the use of ‘free silicone’ can cause stress cracking
- Suitable for use in rotational moulding operations
- Operational temperature to +200°C
- Rolls Royce Approved: 116061

MPR 100

READY TO USE WATER-BASED SILICONE EMULSION RELEASE AGENT
Releases many types of plastic and rubber, especially PVC and rubber profile extrusions.
- Effective release of concrete/stone castings
- Operational temperature up to +150°C
- Economical in use and environmentally ‘friendly’
AMBERSIL PRODUCT RANGE

**COM 300**

**GENERAL-PURPOSE WAX RELEASE AGENT**
A general-purpose liquid wax release agent effective on the following moulds: gel coated, non-gel coated, MDF, plaster, timber and aluminium.

- Simple and easy to apply liquid that can be buffed to a high gloss finish
- Multiple release of moulded components before re-coating is required

**PUR 101**

**RELEASE AGENT FOR SEMI-RIGID AND INTEGRAL SKIN POLYURETHANES**
PUR 101 is a specialised mould release agent based upon a mixture of waxes and non-curing silicone resins in a blend of fast evaporating solvents.

- Formulated for moulding of polyurethanes, the product has proved particularly effective in automotive applications
- Minimal build up and transfer

**PUR 300**

**MOULD RELEASE AGENT FOR RIGID AND SEMI-RIGID POLYURETHANES**
Specifically formulated to facilitate the release of high-density rigid polyurethanes and refrigeration/insulation foams.

- Does not interfere with post moulding operations, allowing bonding, plating, painting, and labelling
- Reduced post moulding costs (no degreasing required)

**ROM 300**

**WATER-BASED, SEMI-PERMANENT ROTATIONAL MOULDING RELEASE AGENT**
Specially formulated water-based release agent for use in rotational moulding operations.

- Fast curing with a lower mould residue build-up
- Non-flammable
- Reduced environmental impact, safer in use
MOULD TOOL LUBRICANT
A heavy-duty, viscous lubricant for ejector pins and other close tolerance mould tool parts.
- NSF H1 registered (no.161560)
- Viscous film prevents creep onto mould tool face
- Lubricating film is clear and non-staining
- Operational temperature to +120°C

CORROSION INHIBITOR FOR MOULD TOOLS
Non-silicone corrosion inhibitor for injection moulding tools and dies.
- Repels and displaces moisture leaving a durable, non-greasy protective film
- Applied film will not harden or crack
- Allows handling and resists acid finger marks
- Light yellow film ensures total coverage
- The cured film will not stain moulds

HIGHLY VISIBLE CORROSION INHIBITOR
Tenacious and long-lasting anti-corrosion treatment for mould tools. The highly visible green spray provides easy visual inspection to ensure complete coverage.
- Non-silicone corrosion inhibitor for injection moulding tools
- Repels and displaces moisture leaving behind a durable protective film for excellent long-term tool storage
- Waxy film allows handling & will resist acid finger marks
- Easily moulded off once production recommences
- Ideal for the long-term storage of mould tools

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
LIGHT GREEN MOULD TOOL PROTECTIVE
A light green, viscous, protective coating for use on mould tools. It removes moisture and provides good, long-term protection to surfaces.
- Easy identification of treated areas for total coverage
- Will not penetrate or creep into the mould tool
- Resists high humidity and acid finger marking
- Easy to apply with good wetting properties
- Excellent corrosion protection
- Also available in a clear version as Tool Guard Clear

CLEAR MOULD PROTECTIVE
TRANSPARENT CORROSION INHIBITOR
Use on moulds as a long-term protection during storage. Carries NSF registration for use on food/beverage packing mould tools.
- Displaces moisture leaving a durable, non-greasy protective film
- NSF H2 registered (No.49688)
- 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

POLYMER REMOVER
HEAVY-DUTY MOULD CLEANER
Highly effective and powerful solvent blend developed for use on polymer residues and soiled tooling/equipment.
- Controlled rate of evaporation for maximum efficiency
- Removes: plastics, rubbers, and resin deposits including: ABS, Acetals, Acrylates, PVC, Epoxy Resins (uncured), Polyamides, Polystyrenes, Silicone Resins, and Rubbers
- It will also remove other materials such as cellulose resins and alkyl resins

MOULD CLEANER
GENERAL-PURPOSE CLEANER FOR MOULD TOOLS
A powerful solvent blend formulated to remove a wide range of common soiling from moulds, tools & dies.
- Quickly and easily removes oils, grease, old protective films & release agents
- Ideal for removing old release agents
- Evaporates to leave a clean, dry, residue free surface
- Special formulation allows use on hot production tooling without excessive solvent loss
**POLYMER PROCESSING**

**SOLVENT CLEANER FG**

**FOOD GRADE SOLVENT CLEANER FOR MOULD TOOLS**

A general-purpose solvent cleaner that is suitable for use in the food/beverage sector:
- Quickly removes oils, greases, waxy protective films, and release agent residue
- Evaporates to leave a clean, dry, residue-free surface
- Excellent materials compatibility
- Low odour

**POLYESTER MOULD CLEANER**

**SOLVENT CLEANER FOR MOULDS**

A blend of powerful solvents specifically developed to remove semi-permanent mould release coatings used in GRP and rotational moulding from a wide variety of mould substrates:
- Safe for use on GRP and gel-coated moulds
- Effective removal of semi-permanent, silicone, and wax release agents
- Compatible with all Ambersil composite release agents

**MOULD SOLV**

**SOLVENT CLEANER FOR MOULDS & TOOLS**

A medium power, low odour solvent for the general cleaning and preparation of mould tools:
- Highly effective low odour degreasing agent
- Safe for use on plastics, metals, painted and glazed surfaces
- Removes anti-corrosion coatings and old release agents
**GLOSSARY**

**ADD**
The Aerosol Dispensers Directive is a piece of European legislation, the primary purpose of which is to protect consumer and end-user safety in relation to the use of aerosol dispensers. Amongst other criteria, ADD requires that all filled aerosols are tested to ensure complete integrity (water bath testing to 50°C) and that all formulations are thoroughly tested to evaluate potential flammability – and labelled accordingly. With aerosol dispensers. Amongst other criteria, ADD requires that all filled aerosols are purpose of which is to protect consumer and end-user safety in relation to the use of aerosol. 

**AEROSOL**
A self-contained sprayable product comprising of a mixture of active ingredients, carriers and propellant contained in a steel or aluminium container which discharges the formulation under pressure. Aerosols are hermetically sealed, ensuring risk of spillage is removed, storage simplified, and combustion risks minimised - all benefiting Health & Safety guidelines. Assists with precise and controlled application.

**BARRIER PROTECTION**
Barrier protection is one of two primary methods of protecting metals from corrosion. By coating the metal with a suitable product (e.g. Acrylic Paints; Bright, Cold Galvanise; Inox 200, etc), corrosion is unable to take place because electrolytes (such as rain water) are unable to come into contact with the metal and an electron flow cannot be established, thus preventing galvanic corrosion.

**BIODEGRADATION / BIODEGRADABLE**
The process by which organic substances are broken down into harmless constituents by the natural action of living micro-organisms.

**CATHODIC PROTECTION**
Cathodic protection is based on the ionic charge of the metal and the reversal or mitigation of the flow of electrons as found in galvanic corrosion. The protective coating applied should have a lower potential (volts) than the metal it is to protect so that the coating is corroded in preference to the base metal – with protection often extending beyond the physical edge of the coating. By offering itself for corrosion instead of the base metal, this type of coating is often termed ‘sacrificial’ and is, in essence, how galvanised steel is protected.

**CHLORINATED SOLVENTS**
Chlorinated solvents are organic solvents which contain chlorine atoms as part of their chemical make-up. These compounds are very effective solvents for oils and greases.

**DIELECTRIC STRENGTH**
The maximum electrical field strength that an insulating material can withstand intrinsically without decomposing, usually specified in volts per millimetre of thickness. Also known as the breakdown voltage.

**EDTA**
EDTA is the chemical compound ethylenediaminetetraacetic acid, also known as dianinoethane tetraacetic acid disodium salt. It is most commonly used as a constituent in water-based cleaning chemicals to bind with a water soluble compound. This use has now become less prominent due to concerns over the biodegradability and EDTA has also found some specialist uses as a preservative in some processed foods and cosmetics. EDTA is the chemical compound ethylenediaminetetraacetic acid, also known as dianinoethane tetraacetic acid disodium salt. It is most commonly used as a constituent in water-based cleaning chemicals to bind with a water soluble compound. This use has now become less prominent due to concerns over the biodegradability and EDTA has also found some specialist uses as a preservative in some processed foods and cosmetics.

**EMULSION**
A combination of water-soluble and water insoluble chemical groups held together by a surfactant. Emulsions are usually milky white.

**EVAPORATION RATE**
The rate at which a material will vaporise (evaporate) when compared to the known rate of vaporisation of a standard material. The designated standard material is usually n-butyl acetate, with a vaporisation rate designated as 1.0. The higher the number, the faster the evaporation rate.

**FDA**
The FDA (Food and Drugs Administration) ensures that all ingredients used in foods are safe, and that food is free of contaminants such as disease-causing organisms, chemicals, or other harmful substances. The FDA reviews the results of laboratory, animal and human clinical testing conducted by companies to determine if the product they wish to place on the market is safe and effective. The FDA does not develop or test products itself, nor issue approvals.

**FLASH POINT**
The lowest temperature at which the vapours of a solvent will flash (ignite) under specific test conditions.

**GALLING**
The process by which metal components ‘cold weld’ and seize. When two metals are brought together under pressure, the action of forcing the surfaces together can cause the contacting faces to begin to combine at an atomic level, fusing the pieces together. Where stainless steel or aluminium alloys are used, the friction can scour off the thin, non-reactive protective oxide layer, exposing clean reactive material - allowing atomic fusing to occur. Galling can be prevented by the use of a lubricant, such as bearing grease, however, grease needs to be ‘worked’ before full lubrication is achieved, therefore a running-in paste should be used to prevent galling in this start-up period.

**GALVANIC CORROSION**
is an electrochemical process which occurs when two metals with differing electrical potentials are in contact with each other in the presence of an electrolytic solution (such as rain water).

**GALVANISING**
Galvanising is the process by which clean, degreased ferrous metal (i.e. steel) has a layer of zinc applied to its surface using extreme heat to form an inseparable alloy at the point where the two layers are fused. Zinc will be corroded in preference to the ferrous substrate thereby preventing structural corrosion. This type of coating is referred to as a ‘sacrificial coating’.

**GHS/CLP**
The Classification, Labelling and Packaging (CLP) Regulation implements the UN Global Harmonised System (GHS) in all EU member states. Currently there are several differing pieces of legislation relating to the classification, labelling and packaging of dangerous substances worldwide. GHS will implement identical criteria for classifying chemicals according to the health, environmental and physical hazards; and also for how hazards are communicated via product labels and MSDS. Manufacturers will need to plan the phase-in of complete label and packaging (print) re-design; the updating of all MSDS and the communication of these changes through the channel. These changes will include the introduction of new hazard warning pictograms and harmonised warning and precautionary statements on labels, which will replace the existing risk and safety phrases.

**GWP**
Abbreviation for “Global Warming Potential”. GWP is an industry recognised, arbitrary measure of the effect of various chemicals on global warming. The benchmark reference is Carbon Dioxide (CO2) with a score of 1 for 1kg. A product that contributes twice as much to global warming would have a score of 2 for 1kg, indicating double the impact for the same amount. As the number gets higher, so the effect of 1Kg of the material can be seen to be proportionally more severe than CO2. The score allows users and specifiers to consider the environmental impact of the products they are using. Not all products on the market will have a GWP score.

**HACCP**
Hazard Analysis Critical Control Point is the systematic preventative approach to food safety that helps food business operators look at how they handle food and introduces procedures to make sure the food produced is safe to eat. It addresses physical, chemical and biological hazards as a means of prevention rather than finished product inspection. Retailers, the food industry and Government in particular are concerned about ensuring that food is produced safely and that the consumer has confidence in the product. HACCP has been increasingly applied to industries other than food, such as cosmetics and pharmaceuticals.

**HARAM**
This is an Arabic term which means impermissible or unlawful in Islam. Where items are prepared or kept in conditions that follow the rules of Islamic law.

**HAZARDOUS TO THE ENVIRONMENT**
Hazardous to the environment

**HAZARD SYMBOLS**

**ENVIRONMENTAL HAZARD**

**HEALTH HAZARD**

**SERIOUS HEALTH HAZARD**

**HEALTH HAZARD**

**CORROSIVE**

**HALAL**

This is an Arabic term which means permissible or lawful in Islam, where items are prepared or kept in conditions that follow the rules of Islamic law.

**HARAM**

This is an Arabic term which means impermissible or unlawful in Islam.
ISO 9001
Internationally recognised Quality Management system standard, indicating Ambersil's commitment to quality and continuous improvement. The standard has been developed to provide a framework around which a quality management system can effectively be implemented.

ISO 14001
Internationally recognised environmental management standard. Specifies the requirements for an environmental management system; provides a framework for an organisation to control the environmental impacts of its activities, products and services, and to continually improve its environmental performance.

KB VALUE
The Kauri Butanol (KB) value is a measure of the relative solvent power of a hydrocarbon liquid. The higher the KB value, the more powerful the solvent.

MODULUS
Where two substrates/surfaces are bonded together with either an adhesive or sealant, they are often subject to forces which could, with enough pressure, result in the bond failing. Modulus is measured in Pascal's. Low modulus means the bond is more flexible and has more 'give' in it, i.e. good for expansion joints. High modulus means that the bond is stiffer and less flexible.

MRO
Abbreviation for the term “Maintenance, Repair, and Overhaul”. Typically associated with the service and repair sectors, including plant and site maintenance / engineering.

NLGI GRADE
A widely used classification for lubricating greases established by the National Lubricating Grease Institute and a reference to the measure of the consistency of a particular grease. The most common consistency number is #2. Softer grades, especially #0 and #1, are often used for improved low-temperature service. High consistency numbers, #3 through #6 are used for certain high-speed bearings, where leakage and sealing are particular concerns. The higher the number, the more viscous the grease.

NSF EXPLAINED
NSF is an abbreviation for the National Sanitation Foundation, which was founded in 1944 as a not-for-profit, non-governmental organisation. NSF International is a global provider of public health and safety risk management solutions to companies, governments and consumers. In 1999, it launched its voluntary Non-food Compounds Registration Program to re-introduce the previous authorisation program administered by the US Department of Agriculture (USDA). Product evaluation is based on formulation and label review and products which comply with the relevant regulations and guidelines receive a Letter of Authorisation and are included in the ‘NSF White Book’.

NSF CATEGORIES

3H
This product is acceptable for use as a Release Agent on grills, ovens, loaf pans, boning benches, chopping boards, or other hard surfaces in contact with meat and poultry food products to prevent food from adhering during processing.

H1
This product is acceptable as a lubricant with incidental food contact for use in and around food processing areas. 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 a potential exposure of the lubricated part to food. If used as an anti-rust film, the compound must be removed from the equipment surface, leaving the surface effectively free of any substance which could be transferred to food.

M1
This product is acceptable for use as a mould release agent on moulds that are used to produce packaging material that will contact food to prevent the finished product from adhering to the mould. The amount used on the equipment should be the minimum required to accomplish the effect.

A1
Acceptable for use as a general cleaner on all surfaces in and around food processing areas, where its use is not intended for direct food contact. All food products and packaging materials must be removed or protected prior to product use. After use of this product, surfaces should be rinsed with potable water. The cleaner should not exhibit a noticeable odour nor leave a visible residue.

A7
Acceptable as a metal cleaner and polisher for non-food contact surfaces (A7) in and around food processing areas. All food products and packaging materials shall be removed or carefully protected prior to usage. This compound 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.

A8
Acceptable for use as a degreaser or carbon remover for food cooking or smoking equipment, utensils, or other associated surfaces in and around food processing areas, where its use is not intended for direct food contact. All food products and packaging materials be removed or protected prior to product use. A potable water rinse of cleaned surfaces is required after use of this product.

H2
Acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. Such compounds may be used as lubricants, release agents, or antitrust films on equipment and machine parts in locations in which there is no possibility of the lubricant or lubricated part contacting edible products.

K2
This product is acceptable for use as a solvent for cleaning electronic instruments and devices, which will not tolerate aqueous cleaning solutions in and around food processing areas, where its use is not intended for direct food contact. Before using this compound, food products and packaging materials must be removed from the area or carefully protected. This compound 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.

P1
Acceptable for use as a TFT, LCD and plasma screen cleaner (P1), in and around food processing areas. The product must only be used in such a manner as to ensure it will have neither direct nor indirect contact with food or potable water.

C1
Acceptable for use in inedible product processing areas, non-processing areas, and/or exterior areas of food processing establishments provided that it is not used to mask odours resulting from unsanitary conditions, and that any characteristic odour or fragrance does not penetrate into an edible product area. When used on equipment that will be returned to a food processing area, the product must be completely washed off and rinsed with potable water before returning to the processing area.

K1
This product is acceptable for use as a cleaner and degreaser for use in non food processing areas, which are used to remove oil, wax, resinous materials, or other substances not removable by using acidic or alkaline cleaning agents. Their use is limited to non-processing areas where there is no possibility of solvent vapours entering a processing area. Food processing equipment or utensils treated with such preparations must be washed with an acceptable detergent solution and thoroughly rinsed with potable water before returning to a processing area.

Glossary
GLOSSARY

OZONE DEPLETERS
Halogen-containing substances known to reduce the protective effects of the stratospheric ozone layer. Aerosols manufactured within Europe have been free of ozone depleting substances for many years.

PH
A scale ranging from 0 to 14 used to measure acidity and alkalinity. The lower the number the more acidic; the higher the number; the more alkaline; 7 is neutral.

POTABLE WATER
Water of sufficient quality to serve as drinking water is called potable water whether it is used as such or not. Although most fresh water sources are drinkable by humans, they can be a disease vector or cause long-term health problems if they do not meet certain water quality guidelines.

PTFE
The abbreviation for polytetrafluoroethylene, PTFE, appears in the Guinness Book of Records as having the lowest coefficient of static and dynamic friction of any solid. This value, at 0.02, is equivalent to wet ice on wet ice, indicating its extreme anti-friction properties.

REACH
Registration, Evaluation and Authorisation of Chemicals, REACH is an EU-wide reform of the regulatory environment in which chemicals are used and will eventually replace and update many other pieces of chemical control legislation. The aim is to reduce the risks to human health and the environment through the methodical and accurate identification of the properties of chemical substances. Whilst there is no definitive list of 'approved' chemicals as such, a series of deadlines will ensure that the highest volume and most harmful are evaluated first. REACH relies on end-user application information to be filtered up through the supply chain to establish accurate registration and evaluation. More information can be found at: www.hse.gov.uk/reach.

RAL
In 1925, the private sector and the German government founded the “Reichsausschuss für Lieferbedingungen” - RAL - (Committee of the German Reich for Terms and Conditions of Sale). RAL’s original task was to standardise precise technical terms of delivery and sale. The RAL colour collection comprises over 200 colours with a four-digit numbering. The registers also include safety and signal colours and they comply with the requirements of the DIN standards (German Industrial Standards). The basic collection for matt colour shades is the register RAL 840 HR while it is the RAL 841 GL register for gloss colours. RAL 840 HR is the European-wide ‘registered’ standard colours for the coatings industry.

RTV (ROOM TEMPERATURE VULCANISATION)
Vulcanisation refers to a specific curing process of rubber involving high heat and the addition of sulphur. It is a chemical process in which polymer molecules are linked to other polymer molecules resulting in springy rubber molecules which become cross-linked. This makes the material harder, much more durable and also more resistant to chemical attack. Vulcanisation which occurs without the need for heat and sulphur, usually by the addition of activating chemicals, is known as Room Temperature Vulcanisation as the rubber ‘tuens' at around 25°C.

SHELL 4-BALL WELD
An industry standard test which provides an indication of the load bearing capability of a lubricant. A steel ball is loaded and rotated against 3 fixed steel balls for 10 seconds. At the end of each 10 second run, a further weight is loaded onto the balls, and the test re-run using fresh lubricant. The test is complete when the balls weld together. The weld point is the load at which this occurs. The higher the weld point, the greater the lubricity (lubricating ability) of the grease.

SPECIFICATIONS

“APPROVED”
Indicates a product has completed a specific process at a user. This process may include detailed testing, or it may simply be a purchasing decision based on data sheet review.

“MEETS THE REQUIREMENTS OF...”
During development and formulation, the product has been evaluated by our chemists against the defined test specification and deemed that if submitted for independent evaluation at an accredited test facility, it would pass.

COMPANY NAMES
Where specific company names are used, these do not reflect either explicit or implied recommendation.

SURFACTANT
A descriptive term derived from ‘Surface Active Agent’, a specialised compound that is typically used to connect water soluble and water insoluble chemical groups. Can be used to improve the emulsifying, foaming, dispersing and wetting properties of a product.

THIXOTROPIC
A term used to describe fluids which are shear thinning. In essence, most thixotropic substances are gel-like, meaning that they retain their shape upon application, but when heated or subjected to shear stress, their shape will change and they will become thinner. The word comes from the Greek ‘thixis’ for touch and ‘tropy’, from ‘tropos’ meaning changeable.

USDA
The USDA (United States Department of Agriculture) used to authorise the use of non-food compounds, including cleaning agents and lubricants, within the Food Industry sector. In 1999, this former authorisation program was reintroduced as a voluntary registration program by NSF International. USDA categories for lubricants: USDA H1 for incidental food contact (above the food line) USDA H2 for where there is no possibility of food contact (below the food line).

VISCOSITY
A term used to describe the resistance to flow or degree of ‘thickness’ of a liquid, usually expressed in units of poise or stokes. The more viscous a product, the thicker its consistency.

WEILS DISEASE
Weil's disease is a particularly dangerous disease which is predominantly caught from standing water infected with the pathogen (bacteria) known as Leptospira, from rat and rodent urine. Symptoms are similar to those of influenza, meningitis, hepatitis, Dengue or viral haemorrhagic fevers and can be fatal if left untreated.

UKCA
The UK Conformity Assessed mark is a mandatory mark on a product to indicate that it conforms to UK legislation.

WRAS
The Water Regulations Advisory Scheme is the UK Water Industry’s approval scheme. Products approved by the scheme have been shown to comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 and amendments. The scheme is designed to promote knowledge of the regulations with a view to preventing the waste, undue consumption, misuse or contamination of drinking water. Approved products can be found at www.wras.co.uk/directory.
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