POLYMER PROCESSING
CRC Industries is a worldwide supplier of chemical products for the industry, automotive and electro segments. The company consists of four operating groups headquartered in the United States, Belgium, the United Kingdom and Australia. CRC Industries Europe is ISO 9001 certified.

We manufacture and supply cleaners, lubricants, anti-corrosion products, adhesives, welding products, additives, moulding products and other specialty products...all for the European, African and Middle East areas.

We guarantee high quality products by following strict guidelines in all facets of research, development and production. We try to meet today’s most stringent environmental and safety standards. Furthermore CRC develops new products and continues to adapt existing products to meet the needs of our customers.

For detailed product information, Technical Data and Material Safety Data, please consult our website: www.crcind.com

“SEE FOR YOURSELF THAT CRC IS THE BEST SOLUTION!”

All statements in this publication are based on service experience and/or laboratory testing. Because of the wide variety of equipment and conditions and the unpredictable human factors involved, we recommend our products to be tested on-the-job prior to use. All information is given in good faith but without warranty neither expressed nor implied.

Note: The CRC product range is country-related. It is possible that some products, listed in the catalogue, might not be available. Product pictures not binding. Actual product may be different from picture due to change-over to new design.
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</tbody>
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A service offered to CRC end-users and distributors as a means to automate the task of updating Technical Data Sheets (TDS) and Material Safety Data Sheets (MSDS), reducing the burden on staff having to remember, schedule, and undertake this HSE requirement.

By using My CRC, the end-user can ensure 100% compliance, automatically when there is a change to the datasheets, whether due to legislative changes such as hazard classifications or amendments to European law. These changes do not affect the product performance or availability, but in a highly regulated industry - up to date compliance is essential to avoid prosecution. The ongoing REACH legislation will affect all processors, distributors, and users of chemicals throughout Europe, however, many people are unaware of what this means. Using My CRC ensures that such changes will be incorporated into the MSDS and TDS, with updates sent automatically.

Offered through the CRC website (www.crcind.com) a simple registration process provides access to the complete CRC product range where selection of relevant products takes place - receive only relevant products updates.

The system remembers the selection, and will automatically generate an email notification when a significant change occurs to either the TDS or MSDS, keeping relevant management and user personnel up-to-date.

**A unique service, making compliance easy!**
- 24/7 availability on-line.
- Removes the potential to ‘forget’ to check for updates.
- Saves time & easy to use.
- Legislation changes frequently, do you always know when it has? Receive updates automatically in your mailbox.
- All information held securely.

**MY CRC - Directions**
2. Click on the My CRC 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 CRC.
7. Once logged in, select the country from the drop-down list at the top of the page. The complete list of CRC 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 CRC 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 CRC and change the update options (click on the My CRC logo to update email preferences).
Check out our new animated product videos!

CRC INDUSTRIES EUROPE CAN NOW BE FOUND ON YOUTUBE!

Search for CRC Industries Europe on Youtube and you will be able to view all our new animated product videos! Subscribe to the channel and you will automatically receive updates on new videos!

OR FIND OUR ANIMATED MOVIES ON THE WEBSITE!

• Go to www.crcind.com
• Click on the Industry tab
• Click on videos

www.crcind.com
MORE PRODUCT, LESS PROPELLANT

We respect the environment and if it’s technically possible, we fill the majority of our aerosols with CO₂. Besides the environmental aspect, this ensures you have ±35% more product.

360° SPRAY SYSTEM

MULTI-LANGUAGE CANS

- Depending on the market version, aerosol products display either 31 languages per can or 8 languages as standard.
- This ensures foreign employees can use products and understand risk phrases.
- CRC products can be exported globally for international branches and end-users.
- Reduces risk of workplace accidents or inappropriate use and improves user safety.
- All SDS are available in up to 31 languages from www.crcind.com
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 Nonfood Compounds Registration Program to re-introduce the previous authorisation program administered by the U.S Department of Agriculture (USDA). Product evaluation is based on formulation and label review. Products which comply with the relevant regulations and guidelines receive a registration letter and are included in the ‘NSF White Book™ Listing of Proprietary Substances and Non-food Compounds’.

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 USDA H2 for where there is no possibility of food contact.

CRC FPS (Food Processing Safe)
Depending on the application, all CRC FPS products are designed for use in the food processing areas. Restrictions might apply to products having double codes when used as a “general purpose” C1 cleaner. All CRC FPS products are NSF registered.

Food contact
Only H1 lubricants can be used where incidental food contact is possible.

NSF Categories:

Lubricants
Used on food processing equipment as :
- anti-rust film (removal of film before re-using equipment)
- release agent on gaskets or seals of tank closures
- lubricant

**H1** Lubricant with incidental food contact (in compliance with FDA 21 CFR, section 178.3570).

**H2** Lubricant with no food contact.

Specialty
**P1** Miscellaneous.

**M1** Mould Release Agents
Non silicone based release agents

**NSR MULTI**
General Use

**NSR DRY**
Dry Film

**NSR FOOD**
M1 Registered

**NSR ULTRA THIN**
Minimum Product Transfer

**NSR THERMO**
High Temperature

**NSR FLEX MOULD**
RTV Mould

**NSR RUBBER**
Water Based

**NSR WET**
Wet Film

**NSR SENSITIVE**
Paintable Plastics
**NSR MULTI**

*General use non-silicone release agent*

Excellent release for thermoplastics and thermosets, e.g. polyurethane elastomers, flexible polymers and PVC.

- A wet film mould release that imparts a gloss finish to moulded parts
- Will not interfere with post moulding operations (painting, printing, bonding, plating)
- Operational temperature to +200°C
- Does not build up in the Mould

<table>
<thead>
<tr>
<th>Ref.</th>
<th>SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>33234</td>
<td>Aerosol 500 ml</td>
</tr>
</tbody>
</table>

**NSR DRY**

*Medium duty, non-silicone release agent*

A medium duty, dry film mould release agent. Does not contain silicone. Provides an easy release for all types of thermoplastics and especially silicone and rubber.

- Will not interfere with post moulding treatments such as painting, printing, bonding or plating
- Operational to +150°C
- Does not build up in the mould
- Limited transfer to the moulded parts

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<tr>
<th>Ref.</th>
<th>SIZE</th>
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</thead>
<tbody>
<tr>
<td>32841</td>
<td>Aerosol 500 ml</td>
</tr>
</tbody>
</table>

**NSR FOOD**

*Food grade non-silicone based release agent*

A non-silicone release agent with NSF registration for use during moulding of food contact plastic packaging.

- NSF registered M1
- Use on moulds for food packaging which is intended for direct food contact
- Will not interfere with post moulding operations such as bonding and labelling
- Translucent film
- Operational temperature to +200°C

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<tbody>
<tr>
<td>32957</td>
<td>Aerosol 500 ml</td>
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</table>
NON SILICONE BASED RELEASE AGENTS (NSR)

NSR ULTRA THIN
Non silicone based release agent with minimal product transfer
Balanced formulation to provide an excellent slip during demoulding without contaminating transparent surfaces by product transfer. Ideal for use with transparent plastics such as Polycarbonate, ABS and polyamides.

- Ideal for mould applications where fine details and precision are requested
- Will not stop post moulding operations (anti-reflection coatings, gluing anti-fog screens...)
- Contains Zinc Stearate which results in excellent slip properties

Ref. SIZE
32962 Aerosol 500 ml

NSR THERMO
Semi-permanent non-silicone release agent
Non silicone release agent formulated to release a wide variety of thermosets in high temperature transformation

- Forms a thin, homogeneous, inert and thermally stable coating from which multiple releases can be expected
- Fast cure time. Moulding can start 30 minutes after application
- Operational temperature to +250°C

Ref. SIZE
32977 Aerosol 500 ml

NSR FLEX MOULD
Mould release agent for epoxy, polyester and polyurethane resins
Air curing copolymer with good adhesion to RTV flexible moulds.

- Tough flexible film
- Protects the RTV mould against the aggressive cast resins
- Operational temperature up to +200°C
- Will not interfere with post moulding treatments such as painting, bonding, printing...

Ref. SIZE
32966 Aerosol 400 ml

NSR RUBBER
Non silicone based release agent for rubbers
A water based release agent for use in a wide variety of rubber moulding operations.

- Used for the release of all natural and synthetic grades of rubber
- Fast curing with lower mould build-up
- Non-flammable and environmental ‘safe’
- Does not affect the rubbers

Ref. SIZE
32980 Bulk 25 kg
NSR WET
Heavy duty, non-transfer silicone release agent
A wet film, which provides an excellent release on a wide range of thermoplastics and thermostet materials.

- Will not interfere with post molding operations such as painting, printing, bonding or plating
- Operational temperature to +150°C
- Does not build up in the mold
- The wet film offers an excellent “slip” for complicated parts

<table>
<thead>
<tr>
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<th>SIZE</th>
</tr>
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<tbody>
<tr>
<td>32842</td>
<td>Aerosol 500 ml</td>
</tr>
</tbody>
</table>

NSR SENSITIVE
Non-transfer silicone release agent for sensitive paintable plastics
Mould release agent for plastics and rubbers.

- Colorless film
- Will not interfere with post molding operations such as painting, printing, bonding or plating
- Operational temperature to +150°C
- Offers an outstanding slip during release of stress crack sensitive polymers
- The first-rate slip allows complicated shapes to be leased by fast shot

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<tr>
<th>Ref.</th>
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</tr>
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<tbody>
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<td>32960</td>
<td>Aerosol 500 ml</td>
</tr>
<tr>
<td>32964</td>
<td>Bulk 5 L</td>
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</table>
SR MULTI
General use silicone based 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, minimizes 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 and shoe industries
- Fabulous slip properties for fast demoulding
- Provides a smooth surface finish

Ref. SIZE
32836 Aerosol 500 ml

SR SEMI PER
Semi-permanent silicone based release agent
Air curing silicone resin, used as polymer release agent on bigger surfaces.

- Excellent performance on rotational moulding production facilities
- Developed for rubbers, elastomers and thermosets
- Performs well as release agent for casting resins on flat bed and wet plastering applications

Ref. SIZE
32958 Aerosol 500 ml

SR THERMO
Heavy duty silicone based release agent
Heavy duty, high silicone concentration, mould release agent.

- Specifically to be used on polyester and epoxy moulds
- Withstands the high temperatures (up to +200°C) during exothermic reactions of the resins
- Smooth surface finish
- Very good thixotropy

Ref. SIZE
32978 Aerosol 500 ml
32969 Bulk 5 L

SR FOOD
Food grade silicone based release agent
A high purity silicone release agent for moulding of food contact plastic packaging.

- NSF registered M1
- Maximum operational temperature: +200°C
- Provides good brilliance at transparent plastics
- Excellent slip for uncomplicated release of light weight mouldings

Ref. SIZE
32956 Aerosol 500 ml
## LOST WAX RELEASE
Paintable mould release agent
Ideal for lost wax moulding and precision moulding.

- Based on a copolymer
- Silicone residues on the casting can be rinsed away with water
- Will not interfere with post moulding treatments such as painting, printing, bonding or plating

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<tbody>
<tr>
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</table>

## PU RELEASE AGENT
Silicone based release agent for polyurethanes (PU)
A silicone release agent formulated as a fine release film for integral skin and elastomeric polyurethanes.

- High quality, high gloss and excellent surface finish
- Colorless
- Operational temperature to +200°C
- No build up on mould surface

<table>
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<th>Ref.</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>32959</td>
<td>Aerosol 500 ml</td>
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</tbody>
</table>

## RELEASE EMULSION
Ready to use water-based silicone emulsion release agent
Releases many types of plastic and rubber, especially PVC and rubber profile extrusions.

- Economical in use and environmentally ‘safe & friendly’
- Operational temperature up to +150°C

<table>
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<tr>
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### Thermoplastics

<table>
<thead>
<tr>
<th>Process</th>
<th>Rotational moulding</th>
<th>Extrusion blow moulding</th>
<th>Vacuum forming</th>
<th>Injection moulding</th>
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<tbody>
<tr>
<td>ABS</td>
<td>SR Semi Per</td>
<td>SR Multi</td>
<td></td>
<td>NSR Ultra Thin / (N)SR Multi</td>
</tr>
<tr>
<td>PA</td>
<td></td>
<td></td>
<td></td>
<td>NSR Multi / SR Multi</td>
</tr>
<tr>
<td>PC</td>
<td></td>
<td></td>
<td></td>
<td>SR Multi / NSR Dry</td>
</tr>
<tr>
<td>PE</td>
<td></td>
<td></td>
<td></td>
<td>NSR Sensitive / (N)SR Multi</td>
</tr>
<tr>
<td>PET</td>
<td></td>
<td></td>
<td></td>
<td>NSR Dry / SR Multi</td>
</tr>
<tr>
<td>PLA</td>
<td></td>
<td></td>
<td></td>
<td>NSR Ultra Thin / (N)SR Multi</td>
</tr>
<tr>
<td>PMMA</td>
<td></td>
<td></td>
<td></td>
<td>NSR Multi / SR Multi</td>
</tr>
<tr>
<td>POM</td>
<td></td>
<td></td>
<td></td>
<td>NSR Rubber</td>
</tr>
<tr>
<td>PP</td>
<td></td>
<td></td>
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<tr>
<td>PS</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>PVC</td>
<td></td>
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When other criteria then plastic & process are involved and considered important, the first selection has to be finetuned with the help of the technical datasheets.

### Thermosets

<table>
<thead>
<tr>
<th>Process</th>
<th>Lost wax</th>
<th>Extrusion profile &amp; sheets</th>
<th>Resin transfer moulding</th>
<th>Flat bed moulding</th>
<th>Pultrusion</th>
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<tbody>
<tr>
<td>UP</td>
<td>NSR Thermo</td>
<td>NSR Thermo</td>
<td>SR Thermo</td>
<td>NSR Dry</td>
<td>NSR Thermo</td>
</tr>
<tr>
<td>AMC</td>
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<td></td>
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<td></td>
<td></td>
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<td>EP</td>
<td></td>
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<tr>
<td>FUR</td>
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<tr>
<td>M</td>
<td></td>
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<tr>
<td>PF</td>
<td></td>
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<tr>
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<tr>
<td>VE</td>
<td>NSR Thermo</td>
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<tr>
<td>neoprene</td>
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When other criteria then plastic & process are involved and considered important, the first selection has to be finetuned with the help of the technical datasheets.
## Glossary Plastics

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<tr>
<th>Code</th>
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<th>Mould Temp. [°C]</th>
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<tbody>
<tr>
<td>ABS</td>
<td>Acrylonitrile Butadiene Styrene</td>
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</tr>
<tr>
<td>PS</td>
<td>Polystyrene</td>
<td>82</td>
</tr>
<tr>
<td>PC</td>
<td>Polycarbonate</td>
<td>93</td>
</tr>
<tr>
<td>PP</td>
<td>Polypropylene</td>
<td>60</td>
</tr>
<tr>
<td>PVC</td>
<td>Polyvinyl Chloride</td>
<td>rig 60 / flex 82</td>
</tr>
<tr>
<td>PE</td>
<td>Polyethylene (LD=Low Density, HD=High Density)</td>
<td>LD 27 / HD 43</td>
</tr>
<tr>
<td>PA</td>
<td>Polyamide (Nylon)</td>
<td>204</td>
</tr>
<tr>
<td>PET</td>
<td>Polyethylene Terephthalate</td>
<td>99</td>
</tr>
<tr>
<td>PMMA</td>
<td>Acrylic</td>
<td>65</td>
</tr>
<tr>
<td>POM</td>
<td>Polyoxymethylene</td>
<td></td>
</tr>
<tr>
<td>PLA</td>
<td>Polylactid Acid</td>
<td></td>
</tr>
<tr>
<td>UP</td>
<td>Unsaturated Polyester</td>
<td></td>
</tr>
<tr>
<td>AMC</td>
<td>Alkyd</td>
<td></td>
</tr>
<tr>
<td>EP</td>
<td>Epoxies</td>
<td></td>
</tr>
<tr>
<td>FUR</td>
<td>Furan</td>
<td></td>
</tr>
<tr>
<td>M</td>
<td>Melamine (MF, UF)</td>
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<tr>
<td>PF</td>
<td>Phenolics</td>
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<td>Polyurethane</td>
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<td>VE</td>
<td>Vinyl Esters</td>
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<tr>
<td>UP</td>
<td>Unsaturated Polyester</td>
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<tr>
<td>AMC</td>
<td>Alkyd</td>
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<tr>
<td>EP</td>
<td>Epoxies</td>
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<tr>
<td>FUR</td>
<td>Furan</td>
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<td>M</td>
<td>Melamine (MF, UF)</td>
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<td>PF</td>
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<td></td>
</tr>
<tr>
<td>VE</td>
<td>Vinyl Esters</td>
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</tr>
</tbody>
</table>

**Thermoplastics**

**Thermosets**

Temperature triggered chemical reaction
POLYMER PROCESSING

CLEANERS
- POLYMER REMOVER Ref. 32961
- MOULD CLEAN Ref. 32840

CORROSION PROTECTION
- Short Term < 3 months *
- Long Term <12 months *
  - Long Term MOULD PROTECT Ref. 32839
    - Transparant CLEAR MOULD PROTECT Ref. 32838
    - Tracable BLUE MOULD PROTECT Ref. 32837

LUBRICANTS
- Precision TRIFLOW Ref. 31343
- Ejectors EJECTOR LUBE Ref. 32955
- Slideway SLIDEWAY OIL Ref. 32146
- Bearing HIGH TEMP GREASE Ref. 30570 Ref. 30572 Ref. 30573

*Depending on environmental circumstances.
**MOULD CLEAN**

*General cleaner for mould tools*

A powerful solvent blend formulated to remove a wide range of common soiling from moulds, tools and dies.

- Quickly and easily removes oils, grease, old protective films
- Perfect for removing old release agents. Takes away old build ups in the mould
- Leaves a clean, dry and residue free surface
- Dissolves residues of polymers

<table>
<thead>
<tr>
<th>Ref.</th>
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<tbody>
<tr>
<td>32840</td>
<td>Aerosol 500 ml</td>
</tr>
</tbody>
</table>

**POLYMER REMOVER**

*Heavy duty mould cleaner*

Highly effective and powerful solvent blend developed for use on heavily soiled moulds and dies to remove a variety of moulding deposits.

- Foaming action which clings to the mould surface and facilitates a good contact with the contamination
- Removes: plastics, rubbers and resin residues, even when carbonized
- Thixotropic formulation for maximum efficiency, even on vertical surfaces
- Leaves a clean and dry surface after application

<table>
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<th>Ref.</th>
<th>SIZE</th>
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<tbody>
<tr>
<td>32961</td>
<td>Aerosol 400 ml</td>
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</table>
**EJECTOR LUBE**
Long lasting high performance lubricant with PTFE for ejector pins
Ejector lube has exceptional lubricating power; even under extreme conditions: high temperatures, high pressures, high linear speeds.

- Eliminates seizing problems of ejectors or drawers
- Eliminates creeping of greasy products and contamination on the aesthetic side of moulded parts
- Promotes gas tightness on the ejector level
- Does not carbonize, leaving black imprints on the finished part

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<tr>
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<tbody>
<tr>
<td>33265</td>
<td>Aerosol 500 ml</td>
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**TRIFLOW**
Durable general lubricant
Multipurpose fluid with PTFE for mould and precision mechanism.

- Penetrates into hard-to-reach areas, displaces moisture and cleans
- Contains micro particles of PTFE
- Durable lubrication thanks to its high quality oils, extreme pressure additives and solid (PTFE) lubricants
- Protects against corrosion and humidity
- Seals out dirt, dust, sand and other abrasive particles

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<tbody>
<tr>
<td>31343</td>
<td>Aerosol 400 ml</td>
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HIGH TEMP GREASE
Lithium EP grease for low speed, high load applications with exposure to high temperatures

-30°C to +200°C.
Ideal for long-term lubrication of rolling-element and sliding-contact bearings

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<tr>
<td>30570</td>
<td>Tube 100 ml</td>
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<tr>
<td>30572</td>
<td>Cartridge 400 g</td>
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<tr>
<td>30573</td>
<td>Bulk 1 kg</td>
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SLIDEWAY OIL
Low viscosity oil for high speed spindle and slide ways lubrication.
Low viscosity, good affinity to metals, excellent water resistance, reduces stick and slip problems, high load capacity, thin durable lubricating film.

Applications:
Guide rails, adjustment mechanisms, ball-joints, rotating positioning surfaces.

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<td>32146</td>
<td>Aerosol 500 ml</td>
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MOULD PROTECT
Long term waxy corrosion protection
Non silicone corrosion protection for moulding tools and dies. Repels and displaces moisture, leaving a durable, high quality protective wax-like film. Long-lasting efficient protection.

- Ideal for mould tools, dies and parts stored for indefinite period
- High covering, translucent film
- Displaces humidity on metal surfaces
- Resists to the affects of condensation due to big temperature changes in the storage place
- Silicone free

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<td>Aerosol 500 ml</td>
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BLUE MOULD PROTECT
Short term blue colored corrosion inhibitor for mould tools
Non silicone corrosion protection for moulding tools. NSF registered for use in food packaging industry.

- NSF registered H2
- Ideal for short-term inactivity of mould tools, dies and jigs
- Highly visible blue dye provides an easy visual method for ensuring complete coverage
- Displaces humidity on metal surfaces
- Silicone-free
- No need for cleaning as the product moulds off during the first cycles

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<td>Aerosol 500 ml</td>
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CLEAR MOULD PROTECT
Short term clear corrosion inhibitor for mould tools
Non silicone corrosion protection for moulding tools. NSF registered for use in food packaging industry.

- NSF registered H2
- Ideal for short-term inactivity of mould tools, dies and jigs
- Will weaken carbonized polymer residues, during the inactivity time
- Displaces humidity on metal surfaces
- Silicone-free
- No need for cleaning as the product moulds off during the first cycles

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<tbody>
<tr>
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<td>Aerosol 500 ml</td>
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