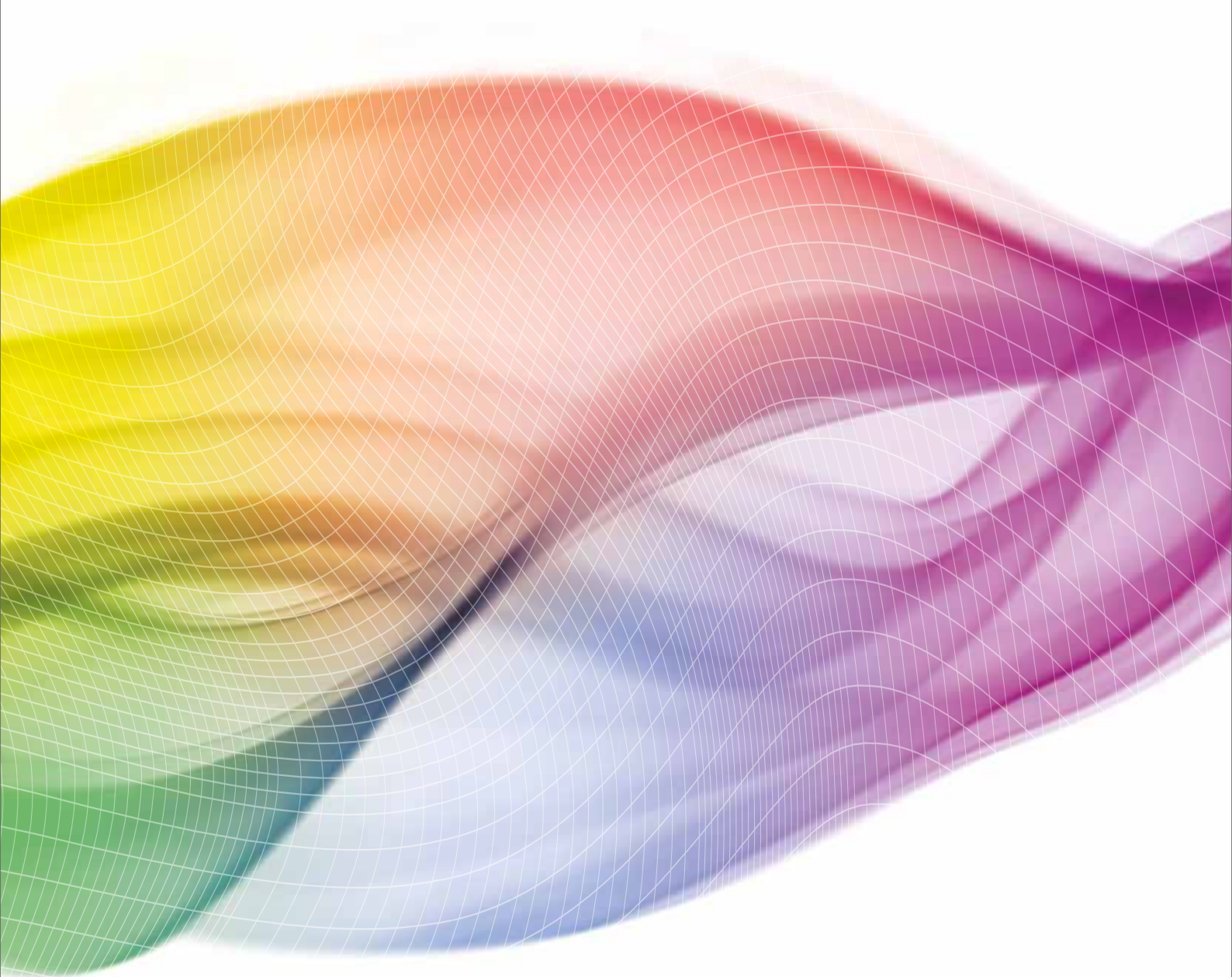
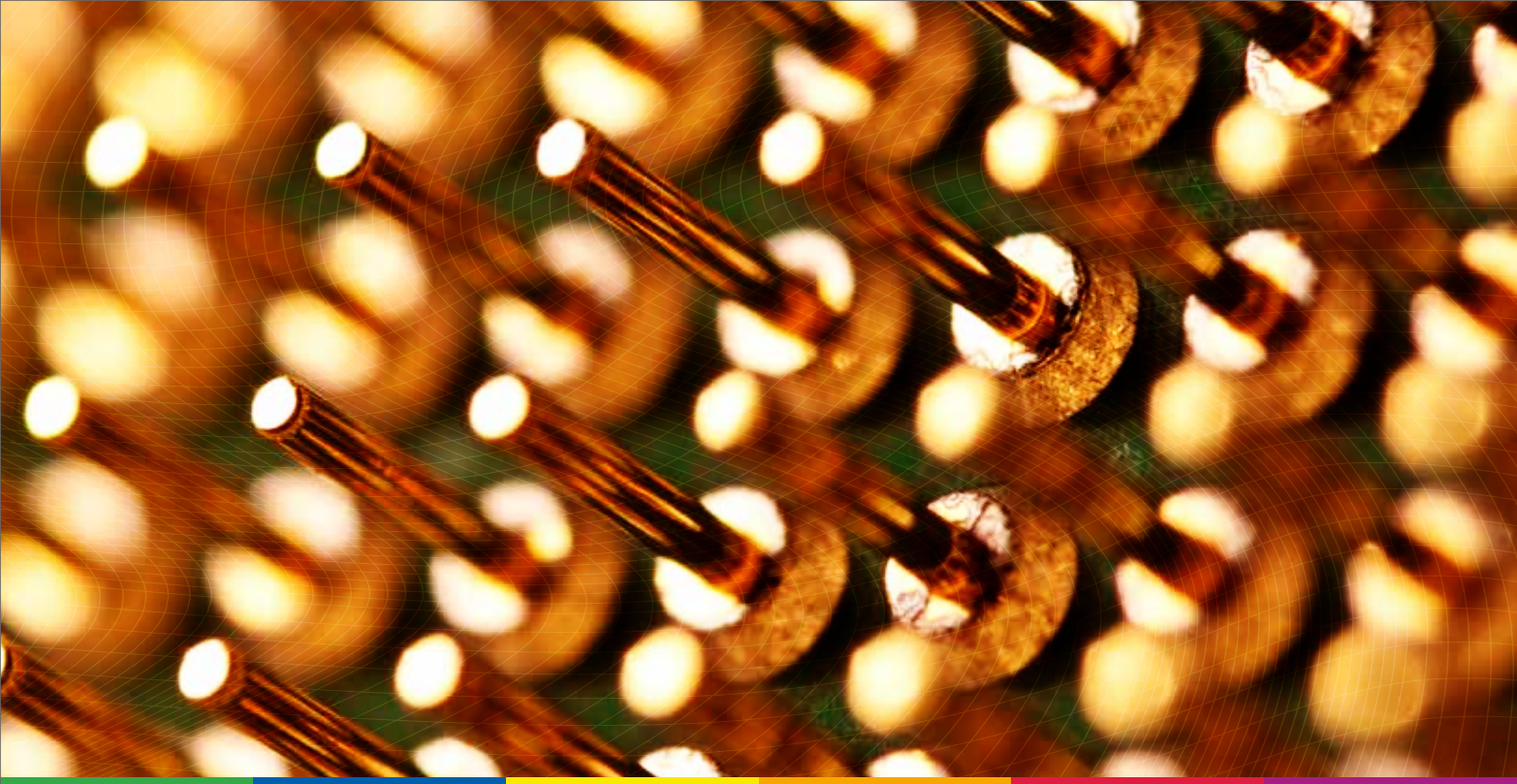


We have the Solution

Your electro-chemicals problems solved



ELECTROLUBE
THE SOLUTIONS PEOPLE



From the first contact


You can trace Electrolube's roots back to 1941, when Henry Kingsbury formed Kingsbury Components to manufacture volume controls. It was here that Henry formulated a specialist oil, that enhanced the electrical performance and lifetime of the contact surface in addition to reducing friction of moving parts.

This breakthrough was the catalyst for a whole range of contact lubricants, forming the basis of the company now known as Electrolube. As global specialists in all aspects of formulated chemical products for the electronics industry, Electrolube also offer a vast array of products including thermal management materials, conformal coatings, encapsulation resins, electronic cleaning solutions and general maintenance products.

With a presence in 55 countries and expanding, our ethos in innovation and service remains strong.

Our mission statement

“To strive to exceed our customers’ expectations with innovative new products and the highest possible levels of customer service.”



“You can always rely on Electrolube to supply a quality product. They’re like another department in our company – there’s always someone there to help find a solution.” **End user**

Exceeding expectations the world over

With our expansive product range of formulated chemical products, we supply leading manufacturers of electronic, industrial and domestic devices for a variety of industries, thus offering the ‘complete solution’ at all levels of production.

With a strong emphasis on both research and collaboration, we are constantly developing new and environmentally friendly solutions for our customers, old and new.

Because we’re represented in over 50 countries, our disciplined network of subsidiaries and distributors can offer all our customers genuine security of scale. This robust supply chain means that when the unexpected happens, we’re still capable of delivering a truly bespoke service anywhere in the world.

Real people you can talk to

Our unrivalled, very personal customer service also extends to every corner of the world. You can rely on our fully trained staff to be knowledgeable and up to speed with the latest technological developments. Having a named single point of contact helps ensure we work closely with our customers, solving problems in the most efficient way possible.

Extending our personal touch to every sector

Our products are integral to the manufacture and maintenance of electrical and electronic components and assemblies in many sectors:

- Automotive
- Military
- Aerospace
- Transport
- Marine
- Telecommunications
- Medical
- Consumer electronics
- Industrial electronics
- Traction
- Utilities
- Education
- Service, repair and maintenance

Simply better solutions

All our product ranges are manufactured at our BS EN ISO 9001 accredited factories in the UK and China. They’re available in multi lingual and versatile packaging which includes: pumps, aerosols, syringes, tubes, pens, sachets, and small tins. Most of our products are also available in bulk.



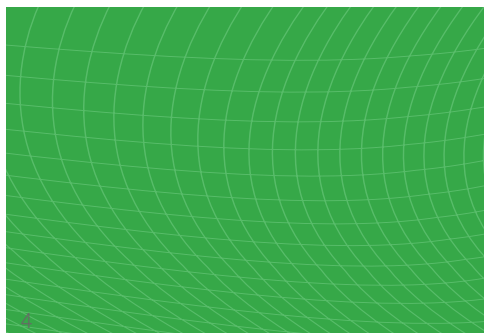
Cleaning

Cleaning is an essential process within electronics manufacture and has been used for many years to remove potentially harmful contaminants during PCB manufacture. Such contaminants include flux, solder and adhesive residues, and other more general contaminants such as dust and debris present from other manufacturing processes.

Effective cleaning will improve your products' lifetime by ensuring good surface resistance and by preventing current leakage leading to PCB failure. Although many applications now utilise 'no-clean' technologies, there are many stages of production where cleaning is still required; for example, the removal of any contaminants to ensure effective adhesion of any protective media applied.

Our cleaning range includes:

- Flux Removal
- Metal Degreasing
- Flammable & Non-flammable
- Bulk & Aerosol
- Water & Solvent Based



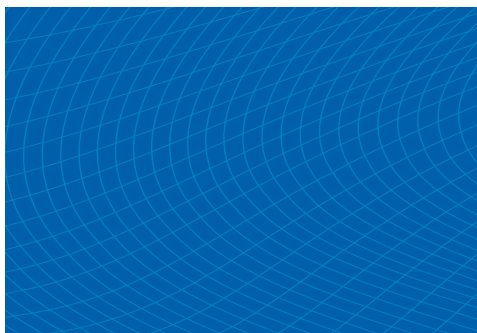
Conformal Coatings

Offering performance in-line with and far exceeding the requirements of industry standards, our conformal coatings are designed to protect printed circuit boards and related equipment from their environment. Typically applied at 25-75µm, these coatings 'conform' to the contours of the board allowing for excellent protection and coverage, ultimately extending the working life of the PCB.

Working closely with our customers from the design stage, we can offer expertise in product selection and application, helping to meet today's demands for miniaturisation, reliability and efficient production processes.

As suppliers to the automotive, marine, military and domestic markets for many years, our range of products includes:

- Solvent removable and solvent resistance coatings
- Acrylic, Silicone, Polyurethane and Hybrid Materials
- Low VOC options
- Thinners and masking products
- IPC, UL and MIL approved products



Encapsulation Resins

Our encapsulation resins are complimentary to the conformal coating products, offering enhanced protection in very challenging environments, including; high humidity conditions, vibration, thermal or physical shock and general contamination. With an ever expanding range of products available, we can tailor our formulations to suit your needs.

Once again working with customers at the design stage, we can offer assistance in considering all variables involved. Whether it be end-use conditions or requirements for successful application of our resins, we are here to offer the highest level of support in product selection and use. With UL approved products also on offer, our materials are often used for many industries in the following applications:

- PCB Encapsulation
- Cable Jointing
- Sealing and Protection





Thermal Management

During use, some electronic components can generate significant amounts of heat. Failure to effectively dissipate this heat away from the component and the device can lead to reliability concerns and reduced operational lifetimes.

Our product range includes thermal interface materials to improve the effective surface area of mating materials, where heat is being dissipated from one to another. These materials are offered in the form of non-curing pastes as well as curable, bonding products such as silicone RTV's. In addition, thermally conductive encapsulation resins are also available to dissipate the heat away from an entire device.

With increasing requirements for efficient electronic products at ever decreasing sizes, thermal management products are becoming more and more essential to the reliability of electronic devices.

- Non-silicone and silicone-based products
- Curing and non-curing options
- RTV's and Thermal Adhesives
- Encapsulation Resins



Contact Lubrication

Since their invention we have earned an unsurpassed reputation for the manufacture and supply of specialist contact lubricants to the automotive, military, aerospace, industrial and domestic switch manufacturing sectors. The range has been developed over the years to accommodate many advances in such rapidly advancing industries; combining excellent electrical properties and lubricity with plastics compatibility.

Offering enhanced performance and lifetime of all types of switches and contacts, our lubricants provide a smooth, high quality feel of moving parts, resulting in their use by major automotive brands around the world.

With a wide range of well-established products combined with our technical expertise, we have the winning formula to finding the very best solution for your needs.

Contact lubricants are used for many different purposes:

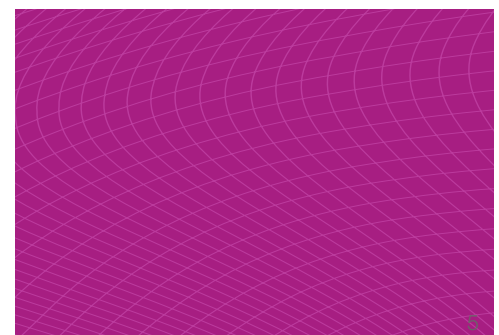
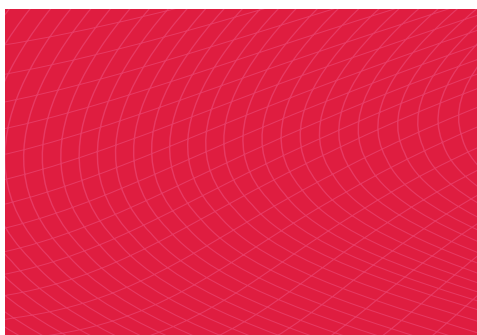
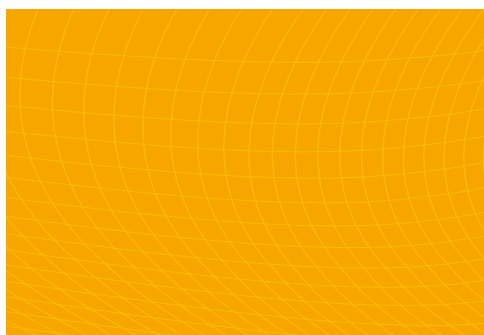
- Extending the operating life of switches
- Improving signal quality
- Reducing operating temperature
- Control switch 'feel'
- Prevent contamination

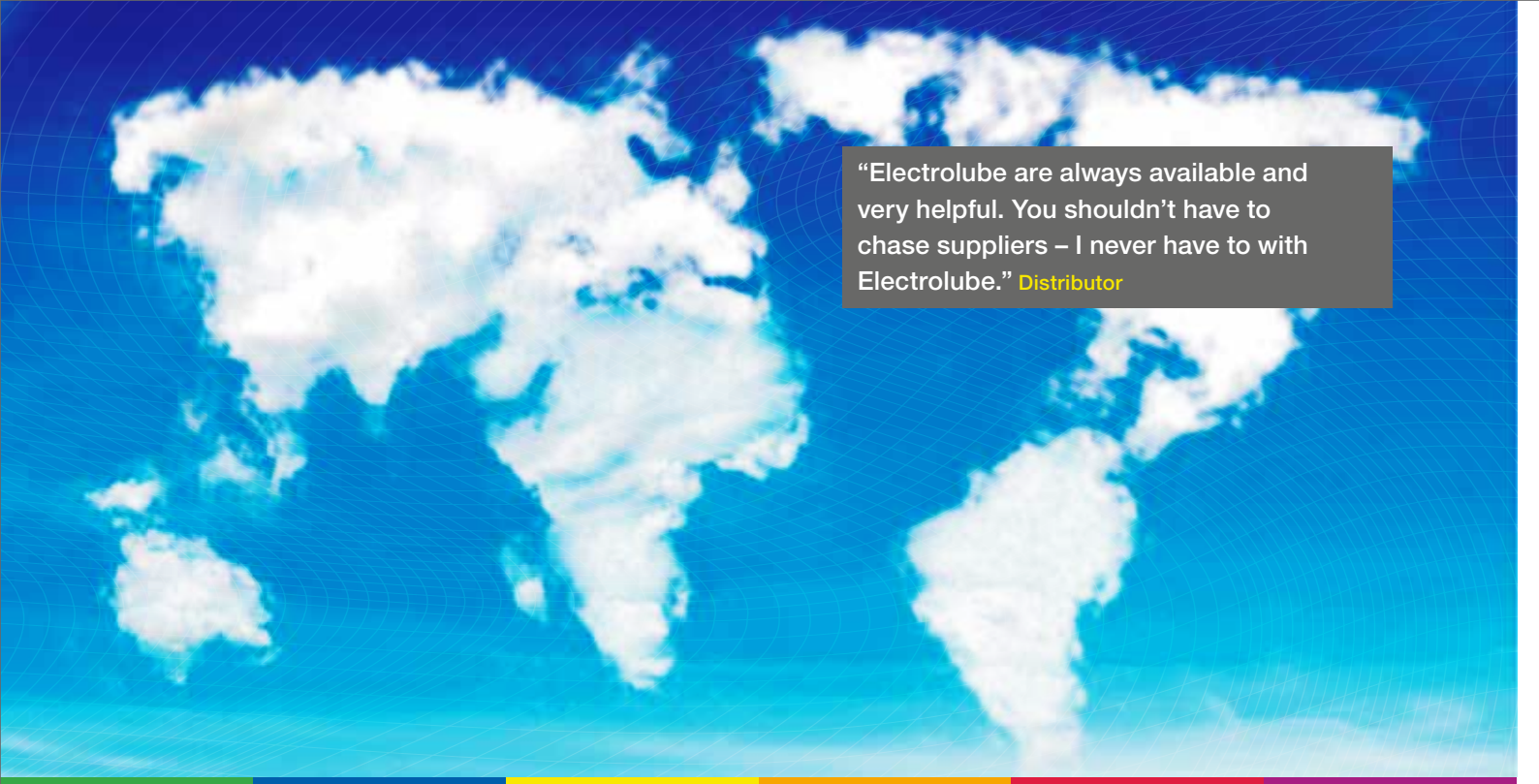


Maintenance and Service Aids

As a compliment to our standard range of products, we also manufacture a wide selection of maintenance and service aids. Conveniently packaged as aerosols, pump sprays, syringes, tubes, pens, sachets and small tins, they are used every day by mobile mechanics and service engineers.

- Air dusters
- Freezer sprays
- Hard surface cleaners
- Cyanoacrylate adhesives
- Contact cleaners
- Lubricants
- Tamper evident seals
- High quality paints
- Galvanising sprays
- Polyurethane foam
- Graffiti removers





“Electrolube are always available and very helpful. You shouldn’t have to chase suppliers – I never have to with Electrolube.” **Distributor**

Committed to improving our environmental performance

We have a responsibility towards the environment and the impact our business has on it – locally and globally. That’s why we aim to prevent pollution, through the implementation of an Environmental Management System.

This is how we intend to achieve this goal:

- Comply fully with all relevant environmental legislation and follow best industrial practice.
- Encourage full participation and commitment of all employees in the production processes on environmental issues.
- Reduce our impact on the environment through the adoption of waste reduction and recycling practices wherever practical.
- Ensure that all the materials used are unloaded, used, stored and disposed of in an environmentally responsible manner.
- Ensure that the environmental management system is fully documented and reviewed to ensure sound environmental practice and achieve continual improvement.
- Find ways to minimise energy consumption.
- Review the environmental impact of future plant, equipment and locations prior to its purchase and use.
- Cooperate with the public, customer and other interested parties on environmental issues.



REACH

The main aims for a new chemical strategy are to improve the protection and awareness of the risks of chemicals to human health and the environment whilst enhancing the development of the EU chemicals industry.

The new chemical strategy involves the Registration, Evaluation and Authorisation of Chemicals – the REACH system.

The current European Legislations for chemical substances incorporates many different Directives and Regulations and includes different rules for 'existing' and 'new' chemicals. It has been decided that this system does not provide enough information about the effects of the majority of chemicals on human health and the environment. Overall, the identification and assessment of risks have proved to be slow, hindering research and development in the EU chemicals industry.

REACH has been designed around the idea that industry itself has a certain level of knowledge of the chemicals and substances used and, in turn, manages potential risks of them and associated products. Authorities will ensure that industry is meeting the requirements of REACH, especially

concentrating on those substances of very high concern. REACH also creates a single system whereby both 'new' and 'existing' chemicals are controlled under the legislation.

REACH is a comprehensive regulation that encompasses manufacturers, importers and downstream users. Data sharing will be required to reduce testing on vertebrate animals and a classification and labelling inventory of dangerous substances will be introduced.

The pre-registration stage began on 1st June 2008 and registration deadlines for chemicals are varied depending on quantity. The identification of Substances of Very High Concern (SVHC) is currently underway; it is an ongoing process with an updated 'candidates list' being produced as required. Implementation of REACH will span over approximately 11 years.

Electrolube is fully aware of the requirements of REACH and the dates by which various parts must be implemented. A team leader and task force have been set up and we are working with both our raw material suppliers and customers to ensure full compliance with REACH at every stage.

For more information please contact REACH@hkw.co.uk

ELECTROLUBE

THE SOLUTIONS PEOPLE

China Headquarters / Manufacturing

Building No2, Mauhwa Industrial Park,
Caida 3rd Street, Caiyuan Industrial Zone,
Nancai Township, Shunyi District
Beijing, 101300
Peoples Republic of China

T +86 (10) 89475123
F +86 (10) 89475123
E info@electrolube.co.uk

www.electrolube.com

UK Headquarters / Manufacturing

Ashby Park
Coalfield Way
Ashby de la Zouch
Leicestershire
LE65 1JR
United Kingdom

T +44 (0)1530 419600
F +44 (0)1530 416640
E info@electrolube.co.uk

www.electrolube.com

A division of H K Wentworth Limited
Registered office as above
Registered in England No. 368850



Certificate No. 32082