PLASTICS, RUBBER & FOAM

PLASTICS, POLYMERS, CHEMICALS, ADDITIVES, SYNTHETIC RUBBER, ISOCYANATES, POLYOLS

1000 PRODUCTS
ENDLESS POSSIBILITIES
REDOX HAS HAD AN
AMAZING HISTORY
OF GROWTH AND
DEVELOPMENT IN THE
YEARS SINCE IT WAS
FOUNDED IN 1965...
PLASTICS, RUBBER & FOAM

ABOUT REDOX

Established in 1965 in Sydney, Redox is a leading chemical distributor active in the Australian, Malaysian, New Zealand and United States markets. Our business specialises in providing customers with the widest possible range of quality chemicals, ingredients and raw materials sourced from the world’s best manufacturers.

Redox add value through its expert sourcing ability, efficient freight and warehousing network, stringent quality systems, close customer service, leveraged buying power and market knowledge. We look for long term partnerships, where shared values and common goals align for mutual benefit. Our relationships are open, innovative and based on teamwork. Let Redox become your supply chain partner and start to enjoy the benefits tens of thousands of customers enjoy around the globe.

QUALITY

Maintaining quality of output is absolutely vital to every one of Redox’s customers. To achieve the required standards, they must be assured that the raw materials they purchase consistently maintain stipulated standards. Redox is an ISO9001 certified company and relevant sites have HACCP and/or FSSC22000 Certification and commit to continual improvement. In addition to regular internal inspections and constant updates to comply with regulatory issues, SAI Global limited conducts bi-annual audits. We are committed to the Chemistry Australia Responsible Care program and the Code of Conduct to protect against the illicit use of chemicals and comply with all relevant environmental programs and occupational health and safety regulations. Redox are also Members of the Roundtable on Sustainable Palm Oil (RSPO), Sedex and subscribers to the EcoVadis Supplier Sustainability Ratings platform.

Our quality assurance program ensures all customers receive relevant and timely information on the storage and handling of chemicals, as well as information to protect the health and safety of employees and the environment.

The Redox labelling system for its packaged products is unique – defining product types and hazard codes, Redox batch numbers and barcodes. The system enables the incoming and outgoing deliveries to be quickly and easily matched to their analysis results. Therefore, at any time, Redox customers can request a certificate of analysis/conformity, either by fax or accompanying their delivery. This certificate contains all of the information required to ensure full traceability and accurate matching with the analysis results of the incoming delivery.

WE UNDERSTAND YOUR NEEDS

Through our dedicated team of plastics and rubber specialists, we deliver real value and a fresh approach to meeting our customer’s needs in a dynamic market. Our principals are leaders in their respective products, allowing us to deliver the widest range of quality materials at a price which allows you to thrive.

EXTENSIVE RANGE OF QUALITY PRODUCTS

Our current product range includes polymers, resins, polyols, silanes & isocyanates, fillers, pigments, curatives & antioxidants, process aids and a range of plasticisers.

RELIABLE DELIVERY AND LOCAL REPRESENTATION

We know that our Plastics, Rubber & Foam clients demand reliability of supply and personal service, that’s why we have 11 regional sales offices across 4 countries with over 50 storage locations. It doesn’t matter if you are in Sydney or Kuala Lumpur, Los Angeles or Auckland you can be sure that friendly help is not far away.

MEMBER OF THE FOLLOWING INDUSTRY ASSOCIATIONS:

- National Association of Chemical Distributors
- Chemistry Australia
# PLASTICS, RUBBER & FOAM PRODUCT LINES

## PRODUCT LISTING

<table>
<thead>
<tr>
<th>CATALYST</th>
<th>ABBREVIATION</th>
</tr>
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<tbody>
<tr>
<td>Stannous Octoate</td>
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</table>

## FILM

| polyester Film | PET FILM |
| Polypropylene Biaxially Oriented Film | BOPP FILM |
| Polypropylene Casting Film | CPP FILM |

## FLAME RETARDENT

| Antimony Trioxide | |
| Ethylene Bis-Tetramethylphthalimide | |
| Decabromodiphenyl Oxide | |
| Decabromodiphenyl Ethane | |

## FOAM

| castor Oil | |
| Dibasic Ester | DBE |
| Methylene Diphenyl Diisocyanate | MDI |
| Polymer Polyol | |
| Polyoxymethylene Glycol | |
| Toluene Diisocyanate | TDI |
| Triethanolamine | |

## MASTERBATCH

| Calcium Carbonate Masterbatch PP & PE based | |

## PLASTICISERS

| Dibutyl Phthalate | DINP |
| Dioctyl Phthalate | DOP |
| Dipropyl Heptyl Phthalate | DHPH |
| Epoxidised Soya Bean Oil | ESBO |
| Trimethyl Terephthalate | TITME |
| Trimel Pentanediol Isobutyrate | |

## POLYMERS

| Acrylonitrile Butadiene Styrene | ABS |

## Polyurethane Systems

| Polyurethane System | |

## Rubber

<p>| Emulsion SBR | E-SBR |
| High Styrene Rubber | HSBR |
| Solution SBR | S-SBR |
| Ethylene Propylene Terpolymer | EPDM |
| Polybutadiene Rubber High Cis | HClS BR |
| Polybutadiene Rubber Low Cis | LClS BR |
| Styrene Isoprene Styrene Rubber | SIS |</p>
<table>
<thead>
<tr>
<th><strong>RUBBER ADDITIVES</strong></th>
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</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td></td>
<td></td>
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<tr>
<td>Chlorinated Paraffin</td>
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<td></td>
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<tr>
<td>Cobalt Neodecanate</td>
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</tr>
<tr>
<td>Dihydro Trimethylquinoline</td>
<td>TMO</td>
<td></td>
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<tr>
<td>Foaming Agents</td>
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<tr>
<td>2,2-Dibenzothiazole Disulfide</td>
<td>MBTS</td>
<td></td>
</tr>
<tr>
<td>NN'-Diphenylguanidine</td>
<td>DPG</td>
<td></td>
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<tr>
<td>ODPA Octylated Diphenylamine</td>
<td>ODPA</td>
<td></td>
</tr>
<tr>
<td>Petroleum Resin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polybutene</td>
<td>PIB</td>
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<tr>
<td>Rubber Accellerator CBS</td>
<td>CBS</td>
<td></td>
</tr>
<tr>
<td>Rubber Antioxidant 6PPD</td>
<td>6PPD</td>
<td></td>
</tr>
<tr>
<td>Stearic Acid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphur Oil Treated</td>
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</tr>
<tr>
<td>N-tert-butyl-2-benzothiazyl sulfenamide</td>
<td>TBBS</td>
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<tr>
<td>Tetramethylthiuram Monosulphide</td>
<td>TMTM</td>
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<tr>
<td>Thiram</td>
<td>TMTD</td>
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<tr>
<td><strong>SOLVENTS</strong></td>
<td></td>
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</tr>
<tr>
<td>Acetone</td>
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<tr>
<td>Aliphatic Hydrocarbon</td>
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<tr>
<td>Isohexane</td>
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<td>White Oil</td>
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<tr>
<td>Xylene</td>
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<tr>
<td><strong>OTHER</strong></td>
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</tr>
<tr>
<td>Base Oil</td>
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</tr>
<tr>
<td>Diethanolamine</td>
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<tr>
<td>Dipropylene Glycol</td>
<td>DPG</td>
<td></td>
</tr>
<tr>
<td>Methylene Chloride</td>
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<tr>
<td>Petroleum Jelly</td>
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<tr>
<td>Polyethylene Glycol</td>
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<tr>
<td>Trichloroethylene</td>
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<tr>
<td>Trimethylol Propane</td>
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</table>
REDOX MAINTAINS THE HIGHEST QUALITY IN ITS SUPPLY OF BOTH PRODUCTS AND SERVICES. IT HAS BEEN CERTIFIED AS A QUALITY ENDORSED COMPANY SINCE 1993, ACKNOWLEDGING ITS CAPACITY TO CONTROL THE QUALITY OF ITS PRODUCTS.
REDOX IS AN ACTIVE DISTRIBUTOR FOR PLASTICS AND FOAM, IN ADDITION TO NATURAL AND SYNTHETIC RUBBERS. THE MANUFACTURERS WE PARTNER WITH ARE LEADERS IN THEIR RESPECTIVE PRODUCTS, ALLOWING US TO DELIVER THE WIDEST RANGE OF QUALITY MATERIALS AT A PRICE WHICH ALLOWS YOU TO COMPETE.
PRODUCT LINES

Redox supplies more than 1,000 different chemicals and ingredients to clients throughout Australia, Malaysia, New Zealand and the United States.

Our range is sourced from quality raw material manufacturers throughout the world and supplied to clients in 140 unique industries. We know and understand the complexities of your market and act to ensure you receive the best products to allow your business to thrive.

Redox’s range includes bulk commodity chemicals where our efficient logistics network and wide sourcing ability makes the difference to specialty ingredients where innovation and knowledge is key. Clients have the choice of solid, liquid and gaseous forms, as well as a broad range of secure packaging and tailored transportation options designed to maximize efficiency, product integrity and safety. From small sachets to bags, bulk bags, bulk powder to carboys, drums, IBC’s/Totes to liquid bulk tankers, Redox offer the flexibility and convenience that your business demands.

CROP PROTECTION AND PRODUCTION
Redox continues to add value to the supply chain with key relationships with the Crop Nutrition, Horticulture and Protection sectors.
Our product range includes:
- Improvers for broad acre and drip delivery
- Growth mediums for Horticulture and Potting soils
- Herbicides, fungicides and other foliar applications.

HUMAN HEALTH
Redox constantly monitors changes in regulatory standards to effectively deliver competitively priced, high quality, innovative products to the Nutraceutical and Pharmaceutical sectors.

TANNING AND TEXTILES
Our experienced, industry trained personnel make Redox a market leader in sourcing and distribution of commodity chemicals to the tanneries and textile plants of the region.

LUBRICANTS AND AUTOMOTIVE
Redox provides key products to service the lubricant and automotive industry with a leading position in the Diesel Exhaust Fluid market.

ANIMAL HEALTH AND NUTRITION
Our wide range of products play a vital role in the stockfeed, aquaculture, pet food and veterinary health markets. We provide:
- Amino acids and proteins
- Feed improvers, enzymes and preservatives
- Vitamins, trace elements and minerals.

METALS
Redox are active in the Steel, Galvanizing, Refractory and Electroplating Industries.

PERSONAL CARE
Whether you are formulating a shampoo or sunscreen Redox have a wide variety of innovative commodity and specialty ingredients for the Personal Care specialist.

DETERGENT
Our detergent customers use our quality materials to manufacture products for Industrial, Institutional and Consumer markets.

FOOD AND BEVERAGE
Constant interaction with nutritionists and regulatory bodies ensures that this division stays at the forefront of the Industry. We provide an extensive range of:
- Sweeteners and stabilisers
- Minerals and phosphates
- Basic and functional ingredients
- Acidulants and preservatives.
CHEMICAL MANUFACTURE
Redox offers a superior world-wide sourcing network and expert logistics to deliver the low-cost raw materials to help chemical manufacturing grow and prosper.

BUILDING AND CONSTRUCTION
Redox products are utilised in the manufacture and treatment of:
• Glass
• Bricks
• Concrete
• Insulation
• Timber
• Fiberglass and more.

WATER AND POWER
For the safest and cleanest water, we supply quality water treatment chemicals such as:
• Flocculants
• pH adjusters
• Filter media
• Scale inhibitors
• Fluoridation additives
• Organophosphates and biocides
• Ion Exchange Resins.

SURFACE COATING
An integral supplier of raw materials used in the Surface Coating industry, including:
• Fillers
• Pigments
• Solvents
• Oxides
• Amines
• Acids
• Glycols and resins.

MINING
Redox supplies a diverse and extensive range of products into all areas of the Mining industry. From flotation agents to cyanide destruction, Redox have reagents and products for your application.

WE KNOW AND UNDERSTAND WHAT'S IMPORTANT TO YOU. TALK TO ONE OF OUR INDUSTRY-FOCUSED EXPERTS TODAY.
GENERAL INFORMATION

CORPORATE INFORMATION

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REDOX EARNED A SILVER MEDAL FOR ITS CSR PERFORMANCE

MEMBERSHIPS DURING 2019:

- Sedex Member
- RSPPO Roundtable on Sustainable Palm Oil
- National Association of Chemical Distributors
At Redox, Corporate Social Responsibility (CSR) is about responsible business leadership. It influences how business is conducted, interactions with stakeholders, and the value contributed to society.

**MARKET PLACE**

Redox understands the importance of sourcing its products from ethical and socially responsible suppliers, ensuring labour rights, health and safety, the environment and business ethics, are not compromised. As such, Redox has memberships with relevant ethical organisations including Sedex, RSPO (Roundtable on Sustainable Palm Oil) and the NACD (National Association of Chemical Distributors). This ensures that we interact within ethical supply chains and enables Redox to demonstrate leadership as a responsible business within the market.

**ENVIRONMENT AND COMMUNITY**

Since 2017, Redox completed projects to fit an additional three sites with photovoltaic solar generation systems. Bringing total capacity to 500kW across five Australian sites, Redox will continue to install solar power generation systems as a practical environmental initiative that also lowers operating expenses. The electricity generated will reduce CO2 emissions by 1,280,000kg per annum which is equivalent to:

- 280 Passenger cars
- OR
- 5,380 Computers

**WORKPLACE**

Redox is an equal opportunity employer which enjoys the benefit of a diverse team. Employment decisions at Redox are based on job requirements, individual qualifications and business needs without regard to race, colour, nationality, religion, gender, age, sexual-orientation or disability. It is our policy to provide equal employment opportunity to all persons. We are committed to fair employment practices and are proud to be an equal opportunity employer, providing employees with a work environment free of harassment and discrimination. Redox also offers support programmes for employees including an independent counselling service covering areas such as bereavement, divorce and alcohol abuse. Our maternity leave processes ensure employees are ready to return to work. We work with our employees to accommodate flexible working where possible. Redox uses professional benchmarking and diagnostic tools to evaluate performance on a regular basis, and measures its impact on employees. Redox ensures there is open communication between all levels of the business, which is highlighted through regular meetings and a casual workplace culture.
As the use of the products described in this document is outside the control of Redox Pty Ltd, we make no representation or warranty concerning the suitability or fitness of those products for any purpose. It is your sole responsibility to ensure that the products will have the qualities and attributes that will make them fit for any purpose required of them, even if that purpose is made known to us at any time. This includes responsibility on your part to conduct in a timely manner all appropriate tests and quality checks on the products and any goods made from them. We disclaim any liability if any products are not suitable or fit for any such purpose. The sale and delivery by us of any of the products described in this document is subject to our Standard Terms and Conditions of Sale, a copy of which is available from our website or on request.

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