

# Resource Recovery



## Hazardous waste management systems Resource Recovery and Recycling Surplus chemical resale

Government and the community are forcing waste generators to exercise more responsibility with their waste accrual and disposal.

Chemsal's Resource Recovery programmes demand that every avenue leads to a minimisation of waste disposal, resulting in a cleaner, healthier and safer environment.



**Chemsal**

# Chemisal

## meeting today's challenges.

In 1981, Chemisal entered the Waste Management Industry with a vision for the future of Australia, a vision that would ultimately make it a leader in Resource Recovery.

Chemisal introduced Australia's first computerised surplus chemical raw material database to the manufacturing industry. The focus soon widened to encompass the more complex issues of the environment and the need for improvement through innovation and technology.

Chemisal was acquired by DoloMatrix Australia Ltd in 2006 to form a new consolidated group incorporating BCD Technologies, SRL Plasma Entech Industries, Waste Audit & Consultancy Services, HazWaste and Thermal Treatment Solutions.

Chemisal offers a full range of services to industry for hazardous waste collection and disposal, recycling, storage, surplus chemical trading, toll manufacturing, repackaging, chemical relocation, reprocessing and site remediation.

With headquarters in Melbourne and operations in New South Wales, South Australia and Queensland, Chemisal is fully EPA licensed to operate in Victoria, New South Wales, Queensland, South Australia and Tasmania.



Chemisal's commitment to quality and safety is paramount. With accreditation in ISO 14001 Environment, AS4801 Safety and ISO9002 Quality, and with a full time regulatory Compliance Officer, Chemisal is able to develop environmental procedures consistent with the guidelines set out by the various state regulatory bodies.

Due to fundamental changes in the waste industry, Government and the community are forcing waste generators to be more responsible with waste accrual and disposal. Chemisal can help your business meet these responsibilities.



Above: Treatment and storage facilities. Cover: Hazpak3000 Densification System

# The Chemsal range of services

Chemsal can assist with reuse, recycling or disposal of a wide range of waste types from a variety sources such as: Mining and industrial operations, laboratories, households, hospitals, universities, schools, government operations, dry cleaners and agriculture to name a few.

## RECOVER™

Specialist recycling or reuse of Fluorescent tubes, Perchloroethylene, paints, plastic packaging and alternative fuels such as flammable and combustible liquids.

### C-Vap Process



Chemsal's C-Vap process has been specifically designed to deal with perchloroethylene wastes most notably from the dry cleaning industry.

The C-Vap Process utilises two stage separation systems resulting in a stable recycled product. Wastes generated are of high calorific value and are able to be reused as an alternative fuel.

### Hazpak 3000 Densification System

The HazPak 3000, as shown on the cover page, is a densification system which provides extremely high levels of efficiency in removal of unwanted residues in order to recover recyclable materials such as steel and paint from used paint tins, oil filters, aerosols and gas cylinders. Liquid or gaseous residues are recovered and reused or recycled depending upon the waste stream.

### Chemsal Lamp Recycling System

The Chemsal lamp recycling system, is designed to accept both whole and pre-crushed lamps of all kinds and sizes. Chemsal is the only company in Australia using this technology. Once crushed, the lamp debris is fed into a uniquely designed agitator unit

that loosens the mercury bearing phosphor powder, adhering to the glass.

The phosphor powder collected is ready for recovery and recycling of the mercury.



*Recycled material from fluorescent lamps*

Meanwhile, cleaned recycled glass debris that constantly discharges from the agitator unit is then separated into its glass and metal/aluminum fractions ready for recycling.

### Surplus Chemicals Resale

Chemical Trading offers a cost-saving alternative to disposal of unwanted stock. In many instances, obsolete or surplus stock can be utilised by other manufacturers. Chemsal maintains a national database of surplus industrial chemical raw materials, and a monthly list is sent to manufacturers nationally.

**Listing is free of charge and all relevant information is available on the Chemsal website at [www.chemsal.com.au](http://www.chemsal.com.au)**

### Hazardous Goods Repackaging & Relocation

Incompatible chemicals need to be packed separately and transported according to the Australian Dangerous Goods Code. This service is supplied with the aid of qualified chemists utilising approved packaging systems. After packaging in accordance with the Chemical Class, Chemsal's trained removal team will transport and deliver with safety in mind.

### Waste and Chemical Transport & Storage

Chemsal operates a licenced fleet of purpose built vehicles ranging from rigid body tautliners for packaged chemical transport, to vacuum tankers for the removal of bulk liquid waste products. To complete the fleet a range of skip bin vehicles for the removal of bulk solids, demountable interceptors for on-site bulk liquid waste storage and removal as well as fully contained 10 and 12 pallet demountable tautliner units providing portable containment of packaged waste loads. (Cont.) ►

## Waste and Chemical Transport & Storage (Cont.)

Chemsal's fleet is manned by comprehensively trained drivers and industrial chemists, and is equipped with all necessary safety and spill-handling equipment. The Chemsal plant also facilitates storage of chemical raw materials and hazardous waste.

## Site Remediation

Chemsal's experienced staff and well-maintained equipment caters for soil removal, in-situ and ex-situ treatment using latest technologies available, drum excavation and vacuum tank extraction.

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# The right approach to Waste Management.

## Strategic Objectives

Today's industry is throwing up many challenges.

Chemsal is meeting the challenge by promoting an integrated approach to waste management, one which draws on synergies from within and those of strategic partners. With their assistance, we aim to establish "Resource Management Partnerships" which will offer our clients collective expertise on Recycling Opportunities, Cleaner Production, Best Practice, 'State of the Art' Technologies, Environmental Stewardship and Regulatory Compliance.

## Environmental Policy

Today's community is both curious and demanding of information and detail on waste emissions. Government has recognised the public's entitlement to such disclosure and the potential risks to public health and amenity.

Chemsal offers specifically designed Customer Service Programmes encompassing Resource Recovery, Waste Management, Occupational Health & Safety, Environmental Practices and Project Management.

## Risk Management

Chemsal takes a 'risk-managed approach' to all its operations.

It has a responsibility to itself and its clients to minimise costs without compromising safety and adherence to state and federal laws.

## Specialist Engineering & Technical Support

Chemsal operates a full-time mechanical engineering capability to service its site and vehicles, and maintain its processing plant and materials handling equipment.

Technical support in hazardous waste treatment and disposal is provided by in-house Industrial Chemists. This capability is enhanced by a Laboratory facility for routine analysis of waste.

## Information Technology & Control Systems

Chemsal has sophisticated database systems designed to provide real-time traceability of waste movements. These systems have been subject to continual upgrade since 1982. The most recent upgrade provides our customers with the ability to place requests on line through our dedicated web portal, simplifying the booking process and providing our customers with a direct link into their customised waste database.

## Occupational Health & Safety

Chemsal is committed to the highest standard of Occupational Health & Safety performance across its entire operation. It practices on-going internal and external employee training programmes and prepares Site/Contract Specific OH&S Induction Procedures tailored for specialist or 'in-field' operations.

Chemsal recognises its moral and legal responsibility to provide a safe and healthy work environment for employees, contractors, customers & visitors. This commitment extends to ensuring that our operations do not place the local community at risk of injury, illness or property damage. This commitment is met by having implemented and revised a comprehensive Quality, Environment and Safety Management System.

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## Chemsal

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