



DISPOSAL INFORMATION

STATS & FACTS

98% of the chemicals collected under the ChemClear program are used as an alternate fuel source.

The remaining 2% being Schedule X Organochlorines, Arsenics and Cyanides are treated as follows:

Schedule X Organochlorines are destroyed by Plasma Arc technology.

Some arsenic solutions in organic solvents may be utilised as kiln fuels in low percentages or alternately stabilization/fixation followed by secure land fill is adopted as a disposal route under the guidance of the EPA.

Cyanides are treated to produce harmless salts and other inorganic materials which render them safe to dispose of through industrial waste water treatment plants.

All chemical containers are recycled and eligible containers recorded under the **drumMUSTER** program.



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DISPOSAL METHODS USED FOR COLLECTED CHEMICALS UNDER CHEMCLEAR

TREATMENT METHODS USED FOR GROUP 1 CHEMICALS

General and Organophosphorus Pesticides

- Disposal Description- Energy Recovery
- Blending process with suitable solvents.
- Used in an energy recovery process which utilises the calorific value of the mix.

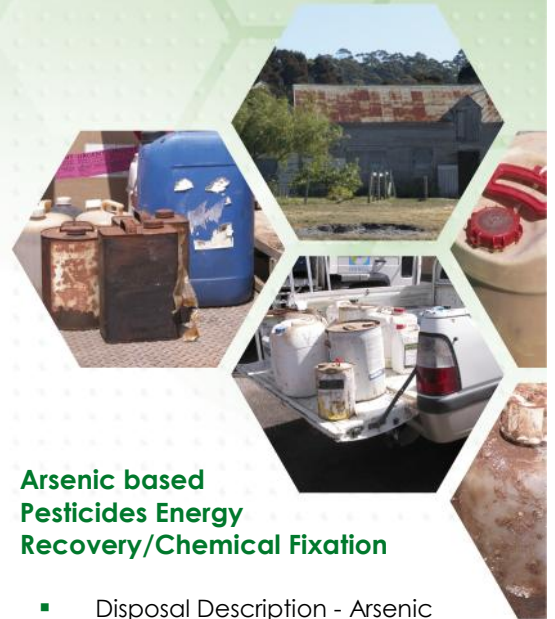
After sorting and depackaging at ChemClear's contractors Melbourne depot all Group 1 chemicals are sent to Gladstone in Queensland for the above treatment to be carried out.

TREATMENT METHODS USED FOR GROUP 2 CHEMICALS

Organochlorine based Pesticides

- Disposal Description - Base-Catalysed Dechlorination (BCD)

BCD involves heating scheduled waste in mineral oil to 200-400c together with a base such as caustic soda and a catalyst. This process strips the chlorine from the waste molecules. The process occurs in Narangba, Queensland.



Arsenic based Pesticides Energy Recovery/Chemical Fixation

- Disposal Description - Arsenic based pesticides are, in some cases, oxidised followed by a fixation technique under Alkaline conditions. The stabilised waste is TCLP tested to ensure arsenic limits are less than those specified for landfill. This process occurs at ChemClear's contractors Melbourne depot. Alternately, arsenics in solvent solutions may be used as alternate kiln fuels via Gladstone.

General and Organophosphorus Pesticides

- Disposal - Energy Recovery
General and Organophosphorus based pesticides are blended with various solvents and used in an energy recovery process in the cement manufacturing industry. This process occurs in Gladstone, Queensland.