



Pharmaceutical Waste Destruction

Our state-of-the-art Treatment Facility is unique in North America



It is the only pharmaceutical waste destruction facility using proven non-incineration technology

Key Advantages of PS2

- Secure destruction
- Proven liability management
- Patented and proprietary technology
- Cost competitive
- Non-incineration
- Recovery of valuable oil
- Ecologically positive

For 14 years, through 10 countries on 5 continents the Phase Separation Solutions (PS2) Team has provided innovative management for major brownfields redevelopment projects, oilfield waste management, industrial hydrocarbon recovery and sensitive materials destruction. From G8 governments to Fortune 500 companies our unique Pyrolytic Depolymerization™ (PDP) process has been applied successfully every time, on every project, everywhere making PS2 a world leader in secure waste management.

Incineration and landfilling have long been the accepted means for disposal of both hazardous and non-hazardous pharmaceutical waste and personal consumer products (PCP). The goal of course has been the removal of potential product liability in the most cost effective means possible. Incineration, while ultimately effective, has been the source of much public debate regarding air emissions and landfilling leaves the manufacturer and the public with potential long term liability. PS2 provides a permanent, high capacity, environmentally benign solution that immediately removes all liability and offers the opportunity to reduce your ecological footprint through recovery of valuable fossil fuels. PS2's proprietary Pyrolytic Depolymerization™ (PDP) process will safely convert shredded plastic packaging into a high quality reusable oil while thermally desorbing all other organic constituents in a closed loop process. The by-products of the PDP process which are inert solids and high quality syn-gas that is used in the process. In essence it provides the destructive benefits of incineration without the concerns associated with air emissions. Liability is removed, security is assured and your overall corporate environmental profile is improved.

Security. Liability. Credibility. Destruction. Impeccable Service.

These are the essential components of a successful pharmaceutical waste management strategy. What if you could confidently add Environmentally Responsible to the list?



Pyrolytic Depolymerization™ (PDP)

Thermal Phase Separation (TPS) is an innovative, Canadian developed, internationally recognized and commercially proven, technology verified by Environment Canada's Environmental Technology Verification (ETV) Program



With our extensive international experience we recognize the importance of public perception, waste security and material tracking. PS2 will directly oversee collection and documentation of the material from the source using only licensed transporters it has thoroughly evaluated and approved. Material will be delivered directly to the PS2 Facility where it will be received into secure storage for shredding and thermal destruction. The storage area, located within the gated PS2 Operations Facility has limited, locked access and is equipped with 24 hour video monitoring.

Comprised mostly of packaging consisting of paper, cardboard, foil and plastic, the material is shredded. It is then introduced into the closed loop extraction system, which has been purged with nitrogen to remove all oxygen, via a rotary airlock. Here, it is agitated and heated indirectly to internal temperatures approaching 550C for over 30 minutes. At these temperatures all materials undergo thermal desorption and depolymerization, converting plastics and polymer based materials to short chain hydrocarbon vapours and separate organic vapours. These vapours are removed and condensed into high quality oil. The remaining packaging and chemical ingredients are converted to an inert, unrecognizable carbonaceous solid. This solid is segregated and inspected prior to disposal and issuance of Certificates of Destruction.

This high capacity, constant feed system ensures prompt processing, no backlogs and cost competitiveness.

To find out how we can help your organisation call:

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