



**The International
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Fact Sheet 2

Lead Risk Management at a Lead Recycling Facility

Hazard Assessment

- Environmental monitoring
 - Atmospheric - Workplace, personal sampling
 - Point source and ambient sampling
 - Aquatic - Effluent and receiving water
 - Soil/flora - Perimeter samples
- Biological monitoring
 - Blood Leads - occupational and local community

Risk Analysis

- Environmental data indicates process control efficiency
- Biological data determines the level of health impacts
- Identify the problem areas, processes and tasks

Control Measures

- Materials Shipments - Covered, labeled and segregated
- Storage - Enclosed and segregated
- Internal Transfers/
Movement
 - Use enclosed conveyers with short falls
 - Use suitable covered containers
 - Use low temperature for liquid transfers
- Baghouse Fumes
 - Use closed system recycling
 - Enclosed dry bag filling
 - Wet cake agglomeration
- Exhaust Ventilation
 - Locate close to the source emission
 - Enclose processes to maximize efficiency
- Housekeeping
 - Do not dry sweep
 - Use vacuum equipment to remove dust
 - Maintain DAMP FLOORS in the working areas
 - Clear spills using fixed vacuum systems
- Personal Protection
 - Provide all workers with respirators



Dynamic Controls

- Roadways and Access
 - Hard impervious surface
 - Washed and cleaned by roadsweeper
 - Segregate internal and external vehicles
- Vehicle Exits
 - Use only one controlled exit
 - All vehicles must exit via a wheel wash
- Mobile Equipment
 - Restricted to the facility
 - Regularly vacuum the inside of the cabs
- Work Practices
 - Prohibit smoking in the work place
 - Segregate the work and eating areas
 - Enforce showering at the end of work
 - Change out of workclothes before going home
 - Change and launder workwear daily
 - Check and clean respirators daily

Training

- Induction
 - All aspects of occupational exposure
 - Correct process conditions and controls
 - Start up and shut down procedures
 - Removing contamination

Monitoring

- Environmental
 - Internal and external atmospheric
 - Stack samples
 - Process effluent and surface water
- Medical Surveillance
 - Lead in blood
 - Haemoglobin and ZPP
 - Medical examination

Safety, Hygiene and Environmental Policy

- Develop a policy that ensures high standards and provides for continuous improvement
- Define roles and responsibilities so that management can clearly demonstrate commitment and leadership in the application of the policy
- Communicate the benefits and implications of the policy and frequently reinforce the message