




Sterling Chemical Malta Ltd

ENVIRONMENTAL INSTRUCTION: Flue-Gas Pollution Control

REVISION HISTORY

Revision Date	Revision Number	Sections Affected	Change description
27.02.2014	00		First issue

Instruction Number: MIOA_4.4.6-C	Edited by: RDOC	Revision by: RSGA	Approved by: Top Management
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1. PURPOSE

According to related legal requirements, this instruction outlines the practices to control, prevent and reduce the air emission pollution in order to protect the environment of the company.

2. SCOPE

This instruction is applicable to the site activities, which have the potential to cause air pollution, and includes best practice procedures for the following:

- Emission of VOC and chemical flue-gas from production process, lab analysis and storage, weighing and handling raw materials and API (e.g. during distillation process);
- Maintenance / control over applicable activities and operations which generate airborne pollutants;
- Control of Chlorofluorocarbon (CFC) (e.g. refrigerants in air-conditioning units and CFC fire extinguishers).

3. PROCEDURE


3.1 Best Practices for Air Pollution

3.1.1 Emission of VOC and chemical flue gas from production process, lab analysis and handling raw materials:

- Ensure clean and clear ventilation points at the working areas.
- Ensure all raw materials and API or his intermediate are covered by lids when idle of operations, in order to reduce leakage of chemical fume to surroundings.
- In the laboratories the raw material's handling permitted only under the exhaust hood only;
- In the production area the loading/unloading operations of raw materials or waste could only be done by activating the hoods mobile
- Perform regular checking that ensure the setting of temperature for all operation production are corrected, thus the baths should not generate too much chemical flue gas.
- If the reactors, centrifuge and filters or dryer are under maintenance / idle of operation, then all equipment should be operated as 'Switch Off / Stand-by' mode, that ensure no chemical fume to be generated.

3.1.2 Maintenance / control over applicable activities and operations which generate airborne pollutants

- Ensure sufficient ventilation in indoor area especially rooms for chemicals usage and storage.
- Ensure that the air treatment equipments (e.g. air scrubbers, filtering system, active carbons filter) function properly through regular inspection and maintenance.

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3.1.3 Management of CFC

- Switch to air-conditioning units that use non-scheduled refrigerants during replacement.
- Switch to non-CFC fire extinguisher if applicable.
- Communicate with maintenance contractors for carrying out maintenance and repair of air-conditioning systems to ensure they work in accordance with requirements stipulated in the Ozone Layer Protection (Controlled Refrigerants) Regulations;

4. MONITORING AND CHECKING

The Plant Manager or his / her delegate shall :

- ensure that plating baths are operated and maintained in satisfactory conditions;
- ensure the practices specified in this procedure are followed by staff and contractors.
- ensure the effective maintenance of plant and equipment through visual inspection and records review
- perform quarterly monitoring on the quality of indoor air.
- where nonconformity are identified corrective action measures are defined and implemented in accordance with MPA_4.5.3 Enquiry / Complaint / Nonconformity Handling

5. RECORDS

Record Description	Record Location/ Retention Responsibility	Minimum Retention Time
Maintenance schedules / records for plant, equipment and vehicles (Refer to relevant subcontractors for plant, equipment and vehicles maintenance record)	RSGA	3 years

6. APPENDIX

Nil