

## Guidance Note

### On-site storage of industrial waste

REP-230-12-MJ  
January 2012

#### Definitions:

<i>EPR</i>	Environmental Performance Report
<i>MECA</i>	Ministry of Environment and Climate Affairs
<i>SEU</i>	Sohar Environmental Unit
<i>SIPA</i>	Sohar Industrial Port area
<i>SFZ</i>	Sohar Free Zone

#### Objectives

Industrial waste is the waste that generated from industrial process activities. There are two types of industrial waste: hazardous and non-hazardous. The main goal of this guidance note is to give requirements for on-site storage of hazardous and non-hazardous industrial waste. In addition information is given on what should be included in license application for the storage area of hazardous industrial waste.

SEU issued five guidance notes that are related to this guidance note:

**REP-123-10-DJ:** Waste management at SIPA and SFZ.

**REP-083-10-DJ:** Procedures of storing hazardous waste at Al Batinah Temporary Hazardous Waste Facility (Liwa Site).

**REP-114-10-DJ:** Procedures of disposing non-hazardous, non-dusty and non-recyclable industrial waste at Sohar Site (at Sohar Municipality landfill).

**REP-115-10-DJ:** Chemicals; import, export, using, handling and storage.

**REP-197-11-DJ:** Reporting, Environmental Performance Report (EPR).

#### 1. Hazardous industrial waste

On-site storage of hazardous industrial waste is allowed when there is no off-site solution.

#### Legal frame work

No hazardous waste should be stored on-site without environmental license. Refer to RD 114/2011 article 19, 20, 22, 31, 34 and 37 and MD 18/1993.

License application for on-site storage of hazardous waste should include the following:

- Hazardous waste license form (filled in properly).
- Request letter with details like: area in m<sup>2</sup>, name of hazardous waste which will be stored and maximum waste quantities.
- A sketch of the area with the detailed design which prove the minimum requirements for example: impermeable floor and protection against unauthorized access

- A waste management plan.

The minimum requirements of on-site hazardous waste storage area are:

**Floor requirements:**

- Impermeable floor lined with impermeable concrete or any other impermeable material which is suitable for storing hazardous waste.
- The floor should handle the weight of the hazardous waste and the vehicles can move on it without any cracks.
- The floor should not be erode over time and inspections must be included in maintenance plan.
- The floor should be smooth, easy to clean and do not absorb liquids (consider a chemical resistant coating)
- The floor material should not ignite sparks with friction or static.
- The maximum allowed load on the floor should be clearly presented.

**Area:**

- The area should have a collection system and slope if necessary to contain any spill or leakages.
- The area should not be too low that can lead to storm water collection.
- If the area is totally closed a proper ventilation system should be provided.
- If the stored hazardous waste gets affected with weather conditions, a proper fire resisting shelter should be provided.
- Proper signing shows the properties of the stored hazardous waste should be provided.
- Restricted access for authorized persons only.
- Proper safety and fire fighting equipments should be provided.
- Communication system to the main office or the responsible persons in case of any emergencies.
- The MSDS of all stored hazardous waste should be available.
- The storage area of hazardous waste should be always clean and well maintained.

**Waste:**

- The hazardous waste should be stored in stable and sealed containers which can not fall or collapse.
- The hazardous waste with flash point less than 32°C should be stored in a separated area.
- Minimum amount of recyclable hazardous waste should be stored.
- Database of all stored hazardous waste should be available upon request from the authority.
- All hazardous waste stored on-site should be reported in each EPR as per SEU reporting guidance note (REP-197-11 DJ).
- No hazardous or non hazardous waste should be disposed or transported off-site without SEU consignment note or registration consignment note.

## **Persons managing the storage:**

- Employee who may deal with hazardous waste should be properly trained on how to deal with the stored hazardous waste.
- Spill kit has to be available and staff must be trained on when and how to use it.
- Personal protection equipments need to be available and used.
- The area requires regular inspection to insure that all requirements are met.

SEU will conduct an inspection to make sure that the minimum requirements are in place after the license's application is submitted.

SEU chemical guidance note (REP-115-10-DJ) gives more details on how to store chemical substances. Because chemical substances and hazardous waste are related to each other (example: an expired chemical can be waste).

## **2. Non-hazardous industrial waste**

The legal frame work of non-hazardous waste are RD 114/2001 and MD 17/1993. SEU has a dedicated area for non-hazardous, solid, non-dusty and non-recyclable industrial waste at Sohar Municipality landfill. SEU guidance note REP-114-10-DJ explains the procedures of utilizing this area. Although storing non-hazardous industrial waste does not need a license, all non-hazardous industrial waste should be reported in each EPR as per SEU reporting guidance note.

Minimum requirements for storing non-hazardous industrial waste on-site are as follows:

- Control the dusty non-hazardous waste by water spraying or installing wind fence to minimize the dust.
- Mixing hazardous waste with non-hazardous waste is NOT allowed in any case.
- Non-hazardous waste should not be disposed off-site without SEU approval.
- The quantity of recyclable non-hazardous waste stored on-site should be minimal.