



HSE REQUIREMENTS FOR DYES ACTIVITY



HSE requirements for dyes activity

When applying for a commercial license for food activity. A layout should be provided with a detailed plan through an approved engineer consulting company a final approval must be obtained from to AFZ-Property sector before starting the business. This plan shall indicate all activities, equipment, and specifications of building.

Description of the industrial:

Process industrial paints are classified into two types:

- Base paint - water (where the solvent is water).
- Base paint - oily or base paint - solvent (where the solvent is a liquid organic matter of petrochemicals).

Paint components:

- A stabilized substance.
- Material dye
- a solvent
- a stabilized material.

The industrial process and even its applications are interspersed with negative environmental impacts due to the nature of its components of solvents, toxic metals and volatile organic compounds.

In addition to the general guidelines of environmental institutions

Location and area:

- The site must be within the industrial zones
- The area is not less than 250 square meters
- The shape of the facility is a closed inch.

The safety and internal environment of the facility:

- Providing a certificate to comply the safety requirements of the civil defense
- The various signs and warning signs should be attached in clear places to all those working in Arabic and English languages and in any appropriate language when required.
- All machinery and equipment must be subject to periodic inspection and replacement of any damaged part.
- Equipping the environment of the internal facility with a closed system for the practice of industrial activity in it by equipping the floors of easy-to-clean materials in addition to the roofs made of environmentally friendly materials and the provisions of manufacturing places with closed doors and insulation from the external environment and provide the facility with a cooling

system and an effective and good air conditioning system taking into account the distributions of operations and the area allocated to each operation, after taking approval of the plan of distribution of operations from the HSE department

- The Department of Health, Safety and Environment should be provided with a list of materials (chemical and physical) entering the industry, and other additions, and the Department of Environmental Protection should be provided with a safety sheet for these raw materials.
- Provision of a liquid waste disposal system outside the closed system for pollutant-sensitive processes by a company specializing in drainage systems
- Providing suitable lighting in manufacturing and storage areas.
- The storage of raw materials is carried out in accordance with the guidelines of the safety sheet for each type of material (hazardous or non-hazardous materials) under the supervision of the Department of Environmental Protection.
- Industrial workers should be obliged to use Safety and personal protection tools and equipment as follows:
 - ✓ Protective glasses with mesh ventilation aspects.
 - ✓ Body protective clothing (PVC, polyurethane suits) or others.
 - ✓ Muzzles with air filters.
- Identify the storage areas of raw materials and storage areas of the final produced materials so that the height of storage does not exceed two and a half meters and the safe passages (not less than one meter) are determined for forklifts and employees of the facility with distinctive linear markings and color for these corridors.
- Install the automatic fire extinguisher in the project with enough fire extinguishers.
- Providing certificates and records of the initial maintenance of machinery and equipment used in industrial activity.

Emissions and external environmental protection:

- Providing industrial operations areas with an effective tow system.
- Treatment of VOC emissions by wet and dry filtration systems or after the cloud system.
- Installation of gas emissions treatment systems after accreditation from the Department of Special Facilities and Services - Department of Health, Safety and Environment and through specialized companies in this field.
- The primary treatment systems for liquid waste resulting from industrial processes are installed after undergoing periodic laboratory examination and the adoption of the Environmental Protection Department for these systems.
- Electricity is regulated within the facility in accordance with the standards of security, safety and environment and in a way that does not affect or affect the movement of workers and mechanisms in the facility.
- All liquid waste shavings from industrial activity discharged into the sewage system must be within the permitted discharge limits (reference to approved standards or standards).
- In the case of the presence of expired or unwanted materials (raw or produced) that are dealt with by companies specialized in hazardous and toxic materials and wastes approved by the Department of Health, Safety and Environment for proper disposal of them

Environmental studies and necessary measurements:

- Submit a work plan to the Health, Safety and Environment Department for approval.
- Submission of an Environmental Impact Assessment Study (EIA) for projects with an area of more than 150 square meters through the environmental companies accredited by the Health, Safety and Environment Department.
- It is not permissible to practice the activity before the approval of the environmental impact assessment study of the facility.
- Regular samples of solid and liquid wastes resulting from industrial activity are taken periodically and examined at the Environmental Laboratory of the Municipality of Ajman. Measurements of pollutants (based on the requirements of Federal Law No. 24/1999) are made periodically at the site (internal and external environment) by companies approved by the Health, Safety and Environment department.