

Regulation DD-19.0: Hazardous/Dangerous Chemical Storage Warehouse

- 19.1 Chemicals of any type, Fuel, Oil, Lubricants, Grease, Paints, Thinner, Perfumery Products and Gases are not permitted for storing and handling in Pre-Built warehouse or Light Industrial Units. However, the same can be stored/handled/manufactured at building/facility constructed at plot of land. Prior to construction, Risk Assessment Study report from the EHS-Trakhees- PCFC pre-qualified RA Consultant shall be carried out with prior approval of scope of work and submitted to EHS-Trakhees-PCFC for the review/approval.
- 19.2 All hazardous chemicals and substances must be stored in a protected /secured place with limited access. Chemicals handling, storage and instructions given in Material Safety Data Sheets & product manuals, supplied by the manufacturer or supplier, must be understood and observed strictly. It is the responsibility of the lessees to obtain Material Safety Data Sheets, share them with the concerned employees and display them at conspicuous locations.
- 19.3 The lessee shall maintain at all times records of dangerous goods used/stored/traded and shall regularly update records of the EHS-Trakhees- PCFC on the same in the prescribed format.
- 19.4 There shall be no open storage of any type of chemical in the lessee premises and any such storage/placement shall be considered a serious violation of EHS-Trakhees- PCFC requirements. Dangerous Goods are not permitted in standard pre-built units.
- 19.5 Perfumery products, alcohol, tires and other highly flammable products storage, manufacturing of as cigarette lighters etc., should be stored in a controlled temperature and all the electrical fittings should be under classified category as per International standards. The fire protection requirements shall be as per EHS-Trakhees- PCFC: Fire Department requirements.
- 19.6 Dubai Municipality Code of Practice for Management of Dangerous Goods shall be referred to and adhered upon.
- 19.7 From time to time various U.A.E. Government Departments issue Controlled and Prohibited Chemicals. It remains the responsibility of the lessee/trader to ensure that lessee / trader does not deal with such substances without requisite approvals from the various Departments and/or EHS-Trakhees- PCFC.
- 19.8 The minimum safe distance (horizontal clearance) of 11 meters shall be maintained from fence line to the walls of covered warehouse/storage/factory building. For open warehouse/dutch barn type

building minimum distance (horizontal clearance) of 15 meters shall be maintained. The flooring of the chemical storage warehouse shall be lined with chemical/ acid resistant coating/lining.

- 19.9 All building/warehouse facilities for storing/handling/manufacturing chemicals/dangerous goods shall be provided with Emergency Eye Wash with Quick drench shower.
- 19.10 All electrical & lighting fittings/fixtures and wiring etc. in hazardous chemical storage/handling/manufacturing warehouse/area shall be of dust & explosion proof type and shall meet the requirement of NFPA 70.
- 19.11 A de-contamination room with storage arrangement for Personal Protective Equipment shall be provided for chemicals/dangerous goods manufacturing/storing/handling facilities.
- 19.12 Adequate number of Wind socks at prominent locations shall be provided.
- 19.13 Adequate number of safety sign boards shall be provided.
- 19.14 The provision for Fire Run off Water/drainage collection system for chemical contaminated water for minimum 30 minutes fire system operation shall be provided.
- 19.15 All RA study recommendations shall be implemented during the design/construction and operational stage of the building/project. The same shall be checked/assessed during the Building Completion/Operation Fitness Inspection of the facility.
- 19.16 Chemical waste disposal shall meet DM / Environmental Control Rules and Requirement.
- 19.17 Appropriate Personal Protective Equipment shall be provided to workforce involved with chemical handling.
- 19.18 Instruction signage for chemical handling is to be displayed at chemical storage/handling area. Pictorial signage should be used where ever practically possible.
- 19.19 Material Safety Data Sheets (MSDS) shall be followed for any kind of storage / handling of chemicals.
- 19.20 Any dangerous cargo shall be packed, marked and labelled, handled, stored and stowed in accordance with the relevant requirements of international regulations applying to the transport of dangerous goods by water and those dealing specifically with the handling of dangerous goods in ports (IMDG Code).
- 19.21 Dangerous substances shall not be handled, stored or stowed unless they are packed and marked and labelled in compliance with IMDG code and other applicable international regulations for the transport of such substances.

- 19.22 If receptacles or containers of dangerous substances are broken or damaged to a dangerous extent, dock work, other than that necessary to eliminate danger, shall be stopped in the area concerned and the workers removed to a safe place until the danger has been eliminated.
- 19.23 Adequate measures shall be taken to prevent exposure of workers to toxic or harmful substances or agents, or oxygen-deficient or flammable atmospheres.
- 19.24 Where workers are required to enter any confined space in which toxic or harmful substances are liable to be present or in which there is liable to be an oxygen deficiency, adequate measures shall be taken to prevent accidents or injury to health. Confined space shall be designated with signboard. Confined Space safety procedure shall be developed and the affected employees shall be provided familiarization/training of confined space periodically. Any change in the confined space safety procedure shall be communicated to the affected employees.
- 19.25 Dangerous substances should only be handled, stored or stowed under the supervision of a responsible person at Supervisory Level.
- 19.26 When dangerous substances are to be handled, stored or stowed, the workers concerned should be given adequate information/briefing in the form of tool box talk and recorded as special precautions to be observed. Briefing should include actions to be taken in the event of a spillage or accidental escape from containment.
- 19.27 All liquid hazardous chemicals store should be provided with spill collection pits connected to appropriate HDPE lined holding tanks.