

Agrichemical Warehousing Standard Association
WAREHOUSING STANDARDS BULLETIN

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Storage of TDG Class 2.1 Flammable Gas

The storage of TDG Class 2.1 Flammable Gas within a certified warehouse area is not recommended by AWSA unless the eight requirements listed below are met. Some products with this classification are

1. Propane (except tanks mounted on forklifts).
2. Ethylene gas.

Audit protocol C19, which is valued at 20 points, states, “There are no spare flammable compressed liquified storage cylinders inside the warehouse...”

If site operators store these products within a certified warehouse area, the following audit protocols are relevant:

B20—mandatory	C17—20 pts.
B21—mandatory	C19—20 pts.
C4—20 pts.	E5— mandatory.
C5—20 pts.	
C6—20 pts.	

Indoor storage of TDG Class 2.1 Flammable Gases shall be stored as follows:

1. in a room or building dedicated only to class 2.1 flammable gas;
2. if in a room within a building, the room is to be constructed as gas-tight and have a fire separation having a fire-resistance rating of at least 2 hours;
3. the room to be located on an exterior wall of the building;
4. the room can be entered from the exterior and any doors into the interior of the building shall be
 - i) equipped with self-closing devices, and
 - ii) constructed so as to prevent migration of gases from the room into other parts of the building;
5. the structure is designed to prevent critical structural and mechanical damage from an internal explosion;
6. is provided with natural or mechanical ventilation;
7. does not contain fuel-fired appliances or high temperature heating elements;
8. is used for no other purpose than the storage of TDG class 2 gases.

The small quantity exemption for TDG Class 2.1 Flammable Gas is 25 kg.

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