

UN CLASSES OF HAZARD MATERIALS

| CHEMICAL CLASS | | 2 | | | | 3 | | 4 | | | 5 | | 6 | 8 | 9 |
|----------------|--|---------------------------------|---------------------------|--------------------------|-------------------|-----------------------|------------------------|---------------------------------|--------------------------|-----------------------|------------------------|-------------|---------------|-------------------|----|
| | | [2.1] Flammable gases | [2.2] Non flammable gases | [5.1][2.2] Oxidizing gas | [2.3] Toxic gases | [3] Flammable liquids | [4.1] Flammable solids | [4.2] Spontaneously combustible | [4.3] Dangerous when wet | [5.1] Oxidizing agent | [5.2] Organic peroxide | [6.1] Toxic | [8] Corrosive | [9] Miscellaneous | |
| | | | | | | | | | | | | | | | |
| 2 | | [2.1] Flammable gases | A | B | S1 | S1 | S2 | S2 | S4 | S5 | S2 | S4 | S1 | S1 | C |
| | | [2.2] Non flammable gases | B | A | B | S1 | S2 | S2 | S4 | S5 | B | S4 | B | S1 | C |
| | | [5.1][2.2] Oxidizing gas | S1 | B | A | S1 | S2 | S2 | S4 | S5 | S2 | S4 | C | S1 | C |
| | | [2.3] Toxic gases | S1 | S1 | S1 | A | S2 | S2 | S4 | S5 | S2 | S4 | C | S1 | C |
| 3 | | [3] Flammable liquids | S2 | S2 | S2 | S2 | A | S2 | S4 | S5 | S2 | S4 | S3 | S2 | B |
| | | [4.1] Flammable solids | S2 | S2 | S2 | S2 | S2 | A | S4 | S5 | S2 | S4 | S3 | S2 | B |
| 4 | | [4.2] Spontaneously combustible | S4 | S4 | S4 | S4 | S4 | A | S5 | S4 | S4 | S4 | S4 | S2 | B |
| | | [4.3] Dangerous when wet | S5 | S5 | S5 | S5 | S5 | S5 | A | S5 | S5 | S5 | S5 | S5 | S5 |
| 5 | | [5.1] Oxidizing agent | S2 | B | S2 | S2 | S2 | S2 | S4 | S5 | A | S4 | C | S3 | C |
| | | [5.2] Organic peroxide | S4 | S4 | S4 | S4 | S4 | S4 | S4 | S5 | S4 | A | S4 | S4 | S4 |
| 6 | | [6.1] Toxic | S1 | B | C | C | S3 | S3 | S4 | S5 | C | S4 | A | B | B |
| 8 | | [8] Corrosive | S1 | S1 | S1 | S1 | S2 | S2 | S2 | S5 | S3 | S4 | B | A | C |
| 9 | | [9] Miscellaneous | C | C | C | C | B | B | B | S5 | C | S4 | B | C | A |

#

| |
|----|
| S1 |
| S2 |
| S3 |
| S4 |
| S5 |
| A |
| B |
| C |

COMMENTS AND GUIDANCE:

THE CHEMICALS MUST BE SEGREGATED BY A MINIMUM DISTANCE OF **3m** AND THE STORE MUST BE WELL VENTILATED. SPILL CONTAINMENT MEANS MUST BE OUTSIDE THE CHEMICAL STORE. SOLID HAZARDOUS CHEMICALS MUST BE ON NON COMBUSTIBLE PALLETS TO AVOID CONTACT WITH INCOMPATIBLE LIQUID CHEMICALS. THE STORE BARRIERS MUST BE FIRERATED.

THE CHEMICALS MUST BE SEGREGATED BY A MINIMUM DISTANCE OF **5m** AND THE STORE MUST BE WELL VENTILATED. SPILL CONTAINMENT MEANS MUST BE OUTSIDE THE CHEMICAL STORE. SOLID HAZARDOUS CHEMICALS MUST BE ON NON COMBUSTIBLE PALLETS TO AVOID CONTACT WITH INCOMPATIBLE LIQUID CHEMICALS. THE STORE BARRIERS MUST BE FIRERATED.

SEGREGATION OF CHEMICALS MUST BE AS FOLLOWS: (PG III AT LEAST **3m** // PG II & I AT LEAST **5m** // SOLID HAZARDOUS CHEMICALS AT LEAST **1m**).

FIRE RATED PARTITIONED AREA IS PREFERRED FOR THIS CLASS OF CHEMICALS.

FIRERATED DETACHED BUILDING IS PREFERRED FOR **CLASS 4.3** WHERE THE USAGE OF WATER BASED SUPPRESSION SYSTEM IS **BANNED**.

A MSDS MUST BE CHECKED TO GUARANTEE THE COMPATIBILITY OF THE CHEMICALS UNDER THE SAME CLASS. IF THEY ARE INCOMPATIBLE MINIMUM SEGREGATION DISTANCE MUST BE **3M**

B MSDS MUST BE CHECKED TO GUARANTEE THE COMPATIBILITY OF THE CHEMICALS. IF THEY ARE INCOMPATIBLE MINIMUM SEGREGATION DISTANCE MUST BE **3M**

C AT LEAST **2m** OF SEGREGATION DISTANCE IS REQUIRED IF THE CHEMICAL HAS FIRE RISK (**PRIMARY OR SUBSIDIARY**). **MSDS** MUST BE CHECKED TO GUARANTEE THE COMPATIBILITY.