

Table 17.1: Guidelines for Risk Assessment			
OCCUPANCY	REQUIRMENTS		
9. FIRE AND EXPLOSION INDEX (F&EI) SYSTEM MATERIAL	704, 325M or 49). Nh is an integer number ranging from 0 to 4. The five degrees of hazards are related to the protective equipment normally availa-		
FACTOR (MF) FOR PROCESS AND	ble to fire fighters. The example of Toxicity numbers are shown in Table 17.1.e. 6. PENALTY FACTOR (Ts)		
STORAGE HAZARD EVALUATION	 i. The Penalty Factor (Ts) is the second toxicity parameter used to determine the TI. The Ts value is derived from the 'Threshold Limit Values (TLV)'. ii. The TLV-values are drawn up by the American Conference of Governmental Industrial Hygienists. iii. TLV represents a time weighted average (TWA) air concentration to which workers can be exposed during a normal working week without ill effects. TLV is often indicated as a TWA-value, both are the same. iv. The penalty factor is determined from the Table 17.1.f. 		
	 7. TOXICITY INDEX i. The Toxicity Index is then calculated from Th and Ts plus the hazard factors of fire & Explosion Index (F&EI). The TI is found from the following formula TI=Th+Ts (1+GH+SH)		

Table 17.1.e.: Material Factor (MF) Example			
Nh	Th		
0	0		
1	50		
2	125		
3	250		
4	325		

Table 17.1.f.: Material Factor (MF) Example			
Threshold Limit Values (TLV)	Penalty Factor (Ts)		
< 5	0		
5-50	50		
> 50	125		

