TABLE 2 - WATER-REACTIVE MATERIALS WHICH PRODUCE TOXIC GASES

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) (PIH in the US) Gas(es) When Spilled in Water

(
ID No.	Guid No.	e Name of Materia	al			TIH Gas(es) Produced	
1923	135	Calcium hydrosulfite)			H ₂ S SO ₂	
1923	135	Calcium hydrosulphi	ite			H ₂ S SO ₂	
1929	135	Potassium dithionite				H ₂ S SO ₂	
1929	135	Potassium hydrosulfite				H ₂ S SO ₂	
1929	135	Potassium hydrosulphite				H ₂ S SO ₂	
1931	171	Zinc dithionite				H ₂ S SO ₂	
1931	171	Zinc hydrosulfite				H ₂ S SO ₂	
1931	171	Zinc hydrosulphite				H ₂ S SO ₂	
2004	135	Magnesium diamide				NH ₃	
2011	139	Magnesium phosphide				PH_3	
2012	139	Potassium phosphide				PH_3	
2013	139	Strontium phosphide				PH ₃	
2308	157	Nitrosylsulfuric acid, liquid				NO_2	
2308	157	Nitrosylsulphuric acid, liquid				NO_2	
2353	132	Butyryl chloride				HCI	
2395	132	Isobutyryl chloride				HCI	
2434	156	Dibenzyldichlorosilane				HCI	
2435	156	Ethylphenyldichlorosilane				HCI	
2437	156	Methylphenyldichlorosilane				HCI	
2495	144	lodine pentafluoride				HF	
2691	137	Phosphorus pentabromide				HBr	
2692	157	Boron tribromide				HBr	
2806	139	Lithium nitride				NH ₃	
Chemical Symbols for TIH (PIH in the US) Gases:							
Br ₂ Bromine HF Hydrogen fluoride NO ₂ Nitrogen d Cl ₂ Chlorine HI Hydrogen iodide PH ₃ Phosphine HBr Hydrogen bromide H ₂ S Hydrogen sulfide SO ₂ Sulfur diox						Nitrogen dioxide Phosphine Sulfur dioxide Sulphur dioxide	

Hydrogen cyanide

NH,