

Commonwealth of Virginia Hazardous Materials Training Program
 Incident Analysis Worksheet - Chemical Hazard Profile

PRODUCT ID	UN NUMBER _____	STCC NUMBER _____	CAS NUMBER _____	
	CHEMICAL NAME _____		HAZARD CLASS _____	
	NFPA 704	HEALTH _____	FIRE _____	REACTIVITY _____

HIGH ENERGY EVALUATION	HAZARD	ACTION	NO	YES	PROFILE
	EXPLOSIVE	DOT Hazard Class 1 material?	_____	_____	EXPLOSIVE
		IN CONTACT WITH OTHER CHEMICALS	_____	_____	Both must be YES to be considered reactive!
		REACTIVE WITH OTHER CHEMICALS	_____	_____	
	REACTIVE	WATER REACTIVE	_____	_____	REACTIVE
		AIR REACTIVE	_____	_____	
		POLYMERIZATION HAZARD	_____	_____	
		CHEMICALLY UNSTABLE	_____	_____	
	RADIOACTIVE	DOT Hazard Class 7 material?	_____	_____	RADIOACTIVE

PHYSICAL STATE	AMBIENT TEMP _____	BOILING POINT _____	MELTING POINT _____		
	EVALUATION			YES	PROFILE
	BOILING POINT BELOW AMBIENT TEMPERATURE			_____	GAS
	BOILING POINT BELOW 300 °F BUT ABOVE AMBIENT TEMPERATURE			_____	LIQUID / GAS
	BOILING POINT ABOVE 300 °F			_____	LIQUID
	MELTING POINT ABOVE AMBIENT TEMPERATURE			_____	SOLID

EVALUATE GAS HAZARDS	FLASH POINT _____	BELOW 100 °F		PROFILE
		ABOVE 100 °F		FLAMMABLE
	IGN. TEMP _____	LEL _____	UEL _____	COMBUSTIBLE
	VAPOR DENSITY _____	BELOW 1		RISE
		ABOVE 1		SINK
	CARCINOGEN _____	NO _____	YES _____	CARCINOGEN
	LC ₅₀ _____	LESS THAN 100 PPM (0.01% v/v)		INHALATION HAZARD
	PEL _____	101 to 1,000 PPM (0.01% to 0.1% v/v)		HIGH
	STEL _____	1,000 to 10,000 PPM (0.1% to 1.0% v/v)		MODERATE
	IDLH _____			LOW
pH _____	0 – 3 or 12 – 14		CORROSIVE	

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EVALUATE LIQUID HAZARDS

SOLUBLE IN WATER	NO _____ YES _____	<u>PROFILE</u> SOLUBLE
SPECIFIC GRAVITY _____	BELOW 1 ABOVE 1	FLOATS SINK
CARCINOGEN	NO _____ YES _____	CARCINOGEN
LD ₅₀	LESS THAN 50 mg/Kg	<u>HEALTH HAZARD</u> EXTREME
PEL _____	50 mg/Kg to 500 mg/Kg	HIGH
STEL _____	500 mg/Kg to 5 g/Kg	MODERATE
IDLH _____	5 g/Kg to 15 g/Kg	LOW
pH _____	0 – 3 or 12 – 14	CORROSIVE

EVALUATE SOLID HAZARDS

SUBLIME	NO _____ YES _____	<u>PROFILE</u> EVALUATE GAS
COMBUSTIBLE	NO _____ YES _____	COMBUSTIBLE
CARCINOGEN	NO _____ YES _____	CARCINOGEN
LD ₅₀	LESS THAN 50 mg/Kg	<u>HEALTH HAZARD</u> EXTREME
PEL _____	50 mg/Kg to 500 mg/Kg	HIGH
STEL _____	500 mg/Kg to 5 g/Kg	MODERATE
IDLH _____	5 g/Kg to 15 g/Kg	LOW
pH _____	0 – 3 or 12 – 14	CORROSIVE

OTHER INFORMATION:
