

Appendix C. Sample Hazardous Substance Information Form

COMMON NAME: _____ **CHEMICAL NAME:** _____

I. PHYSICAL/CHEMICAL PROPERTIES

	Source
Natural physical state: Gas _____ Liquid _____ Solid _____ (at ambient temps of 20°C-25°C)	_____
Molecular weight _____ g/g-mole	_____
Density ^a _____ °F/°C	_____
Specific gravity ^a _____ @ _____ °F/°C	_____
Solubility: water _____ @ _____ °F/°C	_____
Solubility ^b : _____ @ _____ °F/°C	_____
Melting point _____ °F/°C	_____
Vapor pressure _____ mmHg @ _____ °F/°C	_____
Vapor density _____ @ _____ °F/°C	_____
Flash point _____ °F/°C (open cup _____; closed cup _____)	_____
Other: _____	_____

II. HAZARDOUS CHARACTERISTICS

A. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS (PEL, TLV, other)	SOURCE
Inhalation	Yes No	_____	_____
Ingestion	Yes No	_____	_____
Skin/eye absorption	Yes No	_____	_____
Skin/eye contact	Yes No	_____	_____
Carcinogenic	Yes No	_____	_____
Teratogenic	Yes No	_____	_____
Mutagenic	Yes No	_____	_____
Aquatic	Yes No	_____	_____
Other: _____	Yes No	_____	_____

B. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS (PEL, TLV, other)	SOURCE
Combustibility	Yes No	_____	_____
Toxic byproduct (s): _____	Yes No	_____	_____
Flammability	Yes No	_____	_____
LFL		_____	_____
UFL		_____	_____
Explosivity	Yes No	_____	_____
LFL		_____	_____
UFL		_____	_____

^aOnly one is necessary.

^bFor organic compounds, recovery of spilled material by solvent extraction may require solubility data.

C. REACTIVITY HAZARD	HAZARD? Yes No	CONCENTRATIONS	SOURCE
Reactivities:			
_____		_____	_____
_____		_____	_____

D. CORROSIVITY HAZARD	HAZARD? Yes No	CONCENTRATIONS	SOURCE
Ph _____			
Neutralizing agent:			
_____		_____	_____
_____		_____	_____

E. RADIOACTIVE HAZARD	HAZARD?	CONCENTRATIONS	SOURCE
Background	Yes No	_____	_____
Alpha particles	Yes No	_____	_____
Beta particles	Yes No	_____	_____
Gamma radiation	Yes No	_____	_____

III. DESCRIPTION OF INCIDENT:

Quantity involved _____
 Release information _____

 Monitoring/sampling recommended _____

IV. RECOMMENDED PROTECTION:

Worker _____

 Public _____

V. RECOMMENDED SITE CONTROL:

Hotline _____

 Decontamination line _____

 Command Post location _____

VI. REFERENCES FOR SOURCES:

SAMPLE HAZARDOUS SUBSTANCE INFORMATION FORM FILLED OUT FOR VINYL CHLORIDE

COMMON NAME: Vinyl Chloride CHEMICAL NAME: Chloroethene

I. PHYSICAL/CHEMICAL PROPERTIES

		SOURCE
Natural physical state: Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid <input type="checkbox"/>		CHRIS
(at ambient temps of 20°C-25°C)		
Molecular weight	<u>62.5</u> g/g-mole	CHRIS
Density ^a		
Specific gravity ^a	<u>0.9121 @ 20 °P/°C</u>	CHEM DIC
Solubility: water	<u>slightly @ — °P/°C</u>	CHEM DIC
Solubility ^b : <u>alcohol</u>	<u>soluble @ — °P/°C</u>	CHEM DIC
Boiling point	<u>7.2 °P/°C</u>	CHRIS
Melting point	<u>-244.8 °P/°C</u>	CHRIS
Vapor pressure	<u>2,300 mmHg @ 20 °P/°C</u>	CHEM DIC
Vapor density	<u>2.2 @ — °P/°C</u>	NFPA
Flash point	<u>-110 °P/°C</u>	CHRIS
(open cup <input checked="" type="checkbox"/> ; closed cup <input type="checkbox"/>)		
Other: <u>Polymerizes readily in air and water</u>		OHMTADS

II. HAZARDOUS CHARACTERISTICS

A. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS (PEL, TLV, other)	SOURCE
Inhalation	<input checked="" type="radio"/> Yes No	<u>PEL-TWA 1 ppm/TLV-TWA 5 ppm</u>	<u>OSHA/ACGIH</u>
Ingestion	<input type="radio"/> Yes No		
Skin/eye absorption	<input checked="" type="radio"/> Yes No		<u>SITTIG</u>
Skin/eye contact	<input checked="" type="radio"/> Yes No	<u>SKIN burn from contact</u>	<u>OHMTADS</u>
Carcinogenic	<input checked="" type="radio"/> Yes No	<u>TLV 5 ppm/PEL 1 ppm</u>	<u>ACGIH/OSHA</u>
Teratogenic	<input type="radio"/> Yes No		
Mutagenic	<input type="radio"/> Yes No		
Aquatic	<input type="radio"/> Yes No		
Other: _____	<input type="radio"/> Yes No		
B. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS	SOURCE
Combustibility	<input checked="" type="radio"/> Yes No		
Toxic byproduct(s): <u>Hydrogen chloride</u>	<input checked="" type="radio"/> Yes No		
<u>Phosgene, carbon monoxide</u>			
Flammability	<input checked="" type="radio"/> Yes No		
LPL		<u>3.6</u>	<u>OHMTADS</u>
UPL		<u>33</u>	<u>OHMTADS</u>
Explosivity	<input type="radio"/> Yes No		
LEL			
UEL			

^aOnly one is necessary.

^bFor organic compounds, recovery of spilled material by solvent extraction may require solubility data.

C. REACTIVITY HAZARD	HAZARD? <input checked="" type="radio"/> Yes <input type="radio"/> No	CONCENTRATIONS	SOURCE
Reactivities: <u>Polymerizes in air, sunlight or heat</u>		_____	<u>CHRIS</u>
D. CORROSIVITY HAZARD	HAZARD? Yes <input checked="" type="radio"/> No	CONCENTRATIONS	SOURCE
ph _____ Neutralizing agent: _____		_____	_____
E. RADIOACTIVE HAZARD	HAZARD?	EXPOSURE RATE	SOURCE
Background	Yes <input checked="" type="radio"/> No	_____	_____
Alpha particles	Yes <input checked="" type="radio"/> No	_____	_____
Beta particles	Yes <input checked="" type="radio"/> No	_____	_____
Gamma radiation	Yes <input checked="" type="radio"/> No	_____	_____

III. DESCRIPTION OF INCIDENT:

Quantity involved 1,000 lbs
 Release information Suspected Leaking Cylinder

 Monitoring/sampling recommended _____

IV. RECOMMENDED PROTECTION:

Worker Level B protection. Protective clothing materials
recommended: CPE or Viton

 Public _____

V. RECOMMENDED SITE CONTROL:

Hotline _____

 Decontamination line _____

 Command Post location _____

VI. REFERENCES FOR SOURCES:

- CHRIS - Chemical Hazards Response Information System Manual II
- ACGIH - TLVs - Threshold Limit Values for Chemical Substances
and Physical Agents in the Work Environment 1984-85
- CHEM DIC - Condensed Chemical Dictionary, Tenth Edition, 1981
- NEPA - Fire Protection Guide on Hazardous Materials, Seventh Ed., 1978
- OHMTADS - Oil and Hazardous Materials Technical Assistance Data System, EPA 1984
- SITIG - Handbook of Toxic and Hazardous Chemicals, Marshall Sittig, 1981
- OSHA - 29 CFR Part 1910.1017