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]	g/ml	
Specific gravity[a]	@ °F/°C	
Solubility: water	@ °F/°C	
Solubility[b]: _____	@ °F/°C	
Boiling point	°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	SOURCE
Combustibility	Yes No		
Toxic byproduct(s):	Yes No		
_____			
_____			
Flammability	Yes No		
LFL			
UFL			
Explosivity	Yes No		
LEL			
UEL			

[a]Only one is necessary.
[b]For 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? Yes	No	EXPOSURE RATE	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:

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_____

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 ✓ Liquid ___ Solid ___ (at ambient temps of 20°C-25°C)			CHRIS
Molecular weight	62.5	g/g-mole	CHRIS
Density[a]		g/ml	
Specific gravity[a]	0.9121 @ 20	°F/(°C)	CHEM DIC
Solubility: water	slightly @ —	°F/°C	CHEM DIC
Solubility[b]: alcohol	soluble @	°F/°C	CHEM DIC
Boiling point	7.2	(°F)/°C	CHRIS
Melting point	-244.8	(°F)/°C	CHRIS
Vapor pressure	2,300 mmHg @ 20	°F/(°C)	CHEM DIC
Vapor density	2.2 @ —	°F/°C	NFPA
Flash point (open cup ✓; closed cup ___)	-110	°F/(°C)	CHRIS
Other: Polymerizes readily in air and water			OHMTADS

II. HAZARDOUS CHARACTERISTICS

A. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS (PEL, TLV, other)	SOURCE
Inhalation	(Yes) No	PEL-TWA 1 ppm/TLV-TWA 5ppm	OSHA/ACGIH
Ingestion	Yes No		
Skin/eye absorption	(Yes) No		SITTIG
Skin/eye contact	(Yes) No	Skin burn from contact	OHMTADS
Carcinogenic	(Yes) No	TLV 5ppm/PEL 1ppm	ACGIH/OSHA
Teratogenic	Yes No		
Mutagenic	Yes No		
Aquatic	Yes No		
Other: ___	Yes No		

B. TOXICOLOGICAL HAZARD	HAZARD?	CONCENTRATIONS	SOURCE
Combustibility	(Yes) No		
Toxic byproduct(s): Hydrogen chloride, Phosgene, carbon monoxide	(Yes) No		
Flammability	(Yes) No		
LFL		3.6	OHMTADS
UFL		33	OHMTADS
Explosivity	Yes No		
LEL			
UEL			

[a]Only one is necessary.

[b]For organic compounds, recovery of spilled material by solvent extraction may require solubility data.

C. REACTIVITY HAZARD	HAZARD? (Yes) No	CONCENTRATIONS	SOURCE
Reactivities: Polymerizes in air, sunlight or heat			CHRIS

D. CORROSIVITY HAZARD	HAZARD?	CONCENTRATIONS	SOURCE
ph _____	Yes (No)		
Neutralizing agent:			
_____		_____	_____
_____		_____	_____

E. RADIOACTIVE HAZARD	HAZARD?	EXPOSURE RATE	SOURCE
Background	Yes (No)	_____	_____
Alpha particles	Yes (No)	_____	_____
Beta particles	Yes (No)	_____	_____
Gamma radiation	Yes (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
NFPA – Fire Protection Guide on Hazardous Materials, Seventh Ed., 1978
OHMTADS – Oil and Hazardous Materials Technical Assistance Data System, EPA 1984
SITTIG – Handbook of Toxic and Hazardous Chemicals, Marshall Sittig, 1981
OSHA – 29 CFR Part 1910.1017