

# Safety & Health Quick List

Chemical/Product Name:	Styrene
Synonym:	

CAS No: 100-42-5

Hazard Statements: H226 Flammable liquid and vapor.  
 H332 Harmful if inhaled.  
 H319 Causes serious eye irritation.  
 H315 Causes skin irritation.  
 H304 May be fatal if swallowed and enters airways.  
 H335 May cause respiratory irritation.  
 H372 Causes damage to organs (Auditory system) through prolonged or repeated exposure if inhaled.  
 H401 Toxic to aquatic life.  
 H412 Harmful to aquatic life with long lasting effects.

NFPA Ratings:	4-Dangerous	3-Severe	2-Moderate	1-Slightly Hazardous
GHS Ratings:	1-Dangerous	2-Severe	3-Moderate	4-Slightly Hazardous

### Physical Properties

NFPA Rating: Health	2	Auto Ignition Temperature	914 F
NFPA Rating: Flammability	3	Solubility in Water	0.32 g/l
NFPA Rating: Reactivity	2	Specific Gravity	0.9016
GHS Classification: Harmful	2	Flash Point	93.92 F
GHS Classification: Health Hazard	1	Vapor Pressure	0.124 psi
Fire Extinguisher Type		Max Concentration	99.80%
Freeze Point	-23.17	Boiling Point	293.54 F
LEL%	0.90%	RQ	1000 lbs
UEL%	6.80%		
Vapor Density	3.6		

### Exposure Guidelines

PEL/TLV	50 ppm	Corrosive	2
STEL	100 ppm	Irritant	2
Ceiling	N/A	IDLH	700 ppm
Skin Notation (S)	2	Odor Threshold	0.047 ppm
Carcinogen	N/A	Sensitizer	N/A

### Other Hazards:

--	--

### Emergency Response

EPRG-1	50 ppm	Isolate area for at least 50 meters (150 feet) in all directions
EPRG-2	250 ppm	Consider initial downwind evacuation for at least 300 meters (1000 feet).
EPRG-3	1000 ppm	Isolate for 800 meters (1/2 mile) in all directions
Monitoring Method		

**Normal Tasks**

Sampling  
 Drum/Tote Filling  
 Strapping Tank/Truck  
 Hose Disconnect Unclear (Camlock Fitting)  
 Hose Disconnect Unclear (Dry Disconnect)  
 Line/Equipment Opening Unclear  
 Line/Equipment Opening Clear  
 Contaminated Equipment in Maintenance Shop  
 which can't be cleaned  
 Tank Cleaning (No Chemicals Present)  
 Tank Cleaning (Chemicals Present)

**PPE Group**

Group 6
Group 6
Group 6
Group 6
Group 6
Group 6
Group 6
Group 6
Group 6
Group 6

**Emergency Response Tasks**

Small Spill  
 Medium Spill  
 Large Spill  
 Downwing Monitoring (Vapor Only)  
 Liquid Contact (HAZMAT)

**PPE Group**

Group 6
Group 6
Group 6
Group 6
Group 6

**Lab Handling**

Inside Hood  
 Outside Hood

**PPE Group**

Group 13
Group 13

NUMBER	KEY CODE	DESCRIPTION
<b>GROUP 2</b>	GENERAL PROCESS AREA	Standard PPE - Hard Hat, Nomex Coveralls, Safety Side-Shield Glasses, Work Gloves (Leather)
<b>GROUP 6</b>	BOOTS RESPIRATOR	Standard PPE (Group 2) with Chemical Gloves, Boots, Splash Goggles, Face Shield and the Required Respirator
<b>GROUP 11</b>	STANDARD LAB -L	Nomex Lab Coat, Safety Side-Shield Glasses, Latex Gloves
<b>GROUP 12</b>	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
<b>GROUP 13</b>	LAB & RESPIRATOR	Group 11 or 12 along with a Cartridge Respirator
<b>Respirator Type</b>	Half Face, Organic Vapor, Cartridge life= 18 hours	
<b>Chemical Glove Type</b>	Polyvinyl Alcohol	
<b>Boots</b>	Rubber	

PPE Example



