

# Safety & Health Quick List

Chemical/Product Name:	Ethanol	CAS No:	64-17-5
Synonym:	Ethyl alcohol		

**Highly flammable liquid and vapor.  
Causes serious eye irritation.**

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: Flammability	3	Solubility in Water	miscible
NFPA Rating: Reactivity	0	Specific Gravity	0.79
GHS Classification: Skin	2	Flash Point	55.4-60.8F
GHS Classification: Flammable	2	Vapor Pressure	44mmHg
GHS Classification: Eye	2B	Max Concentration	84%
	Dry chem, CO2, water spray or		
Downwind Monitoring (Vapor Only)	AFFF	Boiling Point	173F
Freeze Point	-173F	RQ	1000 lbs
UEL%	19%		
Vapor Density	1.59		

### Exposure Guidelines

PEL/TLV	1000ppm	Corrosive	NA
Ceiling	N/A	IDLH	3300 ppm
SkinNotation (S)	CAT 2	Odor Threshold	10
Carcinogen	N/A	Sensitizer	

### Other Hazards:


### Emergency Response

	Large spill	Consider initial downwind evacuation for at least 300 meters (1000ft)
	Fire	If tank, rail car or truck involved in a fire, isolate 800meters (1/2mi) in all directions
Monitoring Method	NA	

**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 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3
Group 3

**Emergency Response Tasks**

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

**PPE Group**

Group 7
Group 7
Group 7
Group 7
Group 7

**Lab Handling**

- Inside Hood
- Outside Hood

**PPE Group**

Group 12
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 7</b>	SLICKER SUIT	Standard PPE (Group 2) with Chemical Gloves, Boots, slicker suit and Required Respirator
<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>		OVA Cartridge Respirator
<b>Chemical Glove Type</b>		Nitrile







