

SAFETY & HEALTH QUICK LIST

Chemical/Product Name:	Formaldehyde
Synonym:	

CAS No: 50-00-0

Hazard Statements: **Danger**
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H331 Toxic if inhaled.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H360F May damage fertility.
H360 May damage the unborn child.
H370 Causes damage to organs: (central nervous system (CNS))
H373 May cause damage to organs through prolonged or repeated exposure: (skin, gastrointestinal tract, respiratory tract, kidneys, liver, central nervous system (CNS))

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	3	Auto Ignition Temperature	1463 F
NFPA Rating: Flammability	4	Solubility in Water	Infinite
NFPA Rating: Reactivity	0	Specific Gravity	0.815
GHS Classification: Harmful	1	Flash Point	185 F
GHS Classification: Corrosive	1	Vapor Pressure (@ 68F)	1.025 psi
GHS Classification: Health Hazard	1	Max Concentration (@68F)	37%
Fire Extinguisher Type	Use an extinguishing agent suitable for the surrounding area	Boiling Point	-3.1
Freeze Point	-133.6	RQ	100 lbs
LEL %	7.00%		
UEL %	70%		
Vapor Density	1.067		

Exposure Guidelines

PEL/TLV	0.75 ppm	Corrosive	1
STEL	2 ppm	Irritant	2
Ceiling	N/A	IDLH	20 ppm
Skin Notation (S)	1	Odor Threshold	0.5 ppm to 1 ppm
Carcinogen (A1-A4)	1B	Sensitizer	1

Emergency Response

EPRG-1 (ppm):	1 ppm	Isolate area for at least 50 meters (150 feet) in all directions
EPRG-2 (ppm):	10 ppm	Consider initial downwind evacuation for at least 300 meters (1000 feet).
EPRG-3 (ppm):	40 ppm	Isolate for 800 meters (1/2 mile) in all directions
Monitoring Method	Personal, workplace atmosphere or biological monitoring	

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 7
Group 7
Group 7
Group 7
Group 7
Group 7
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Group 7
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Group 7
Group 7
Group 7

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 13
Group 12

NUMBER	KEY CODE	DESCRIPTION
GROUP 1	VISITOR	Normal Clothes (no shorts or tank tops) , FRC Lab Coat, Close-Toed Leather Shoes, Safety Side-Shield Glasses
GROUP 2	GENERAL PROCESS AREA	Standard PPE - Hard Hat, Nomex Coveralls, Safety Side-Shield Glasses, Work Gloves (Leather)
GROUP 7	SLICKER SUIT	Standard PPE (Group 2) with Chemical Gloves, Boots, Slicker Suit and the Required Respirator
GROUP 11	STANDARD LAB -L	Nomex Lab Coat, Safety Side-Shield Glasses, Latex Gloves
GROUP 12	STANDARD LAB -N	Nomex Lab Coat, Safety Side-Shield Glasses, Nitrile Gloves
GROUP 13	LAB & RESPIRATOR	Group 11 or 12 along with a Cartridge Respirator
Respirator Type		Full Face, Organic Vapor, acid air
Chemical Glove Type		Rubber

PPE Example



