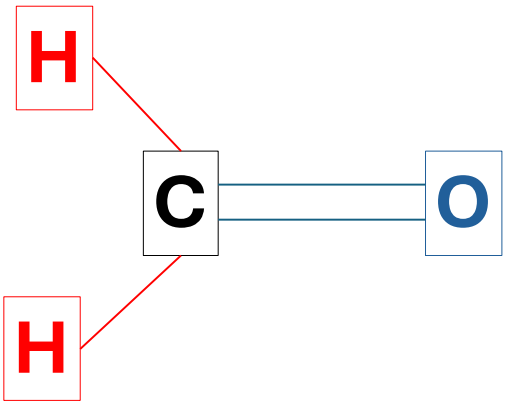
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Formaldehyde, Methanal, Methylene oxide, Oxymethane, Formic aldehyde, Methyl aldehyde
UN Number	1198 (flammable solution), 2209 corrosive solution
Chemical Formula	CH_2O
Hazards	Flammable, corrosive, toxic, polymerization, carcinogen potential
PPE Considerations	SFPC with SCBA or CPC with SCBA, nitrile 4 mm thick
Fire Fighting Considerations	CO2, dry chem, ATC AFFF, water spray
Decontamination	Ventilation, Water
Detection and Monitoring	Colormetric, CGI, PID IP = 10.87 ev, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless liquid with pungent odor
Vapor Pressure	1-51 mm/Hg
Boiling Point	213°F (explodes)
Vapor Density	1-1.5
Specific Gravity	-
Miscibility	Miscible
Flash Point	120°F
LEL/UEL	7%/73%
Autoignition Temp	795-806°F
pH	2.8-4
Toxicity	
IDLH	20 ppm
AEGL1/AEGL 2/AEGL 3 – 10 Min	9/14/100 ppm
Protective Action Criteria (PAC) 1/2/3	.9/14/56 ppm
PEL/REL/STEL	.75/.016 /.3 ppm
LD50	50 – 300 mg/kg
LC50	2-10 mg/l
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Toxic by inhalation, ingestion, contact
Signs/Symptoms of Exposure	Respiratory s/s, CNS s/s, irritation/burning of skin/respiratory tract
Medical Treatment	Fresh air, water flush, treat symptomatically

Other Information
Polymerization hazard, ACGIH listed carcinogen
Chemical Structure