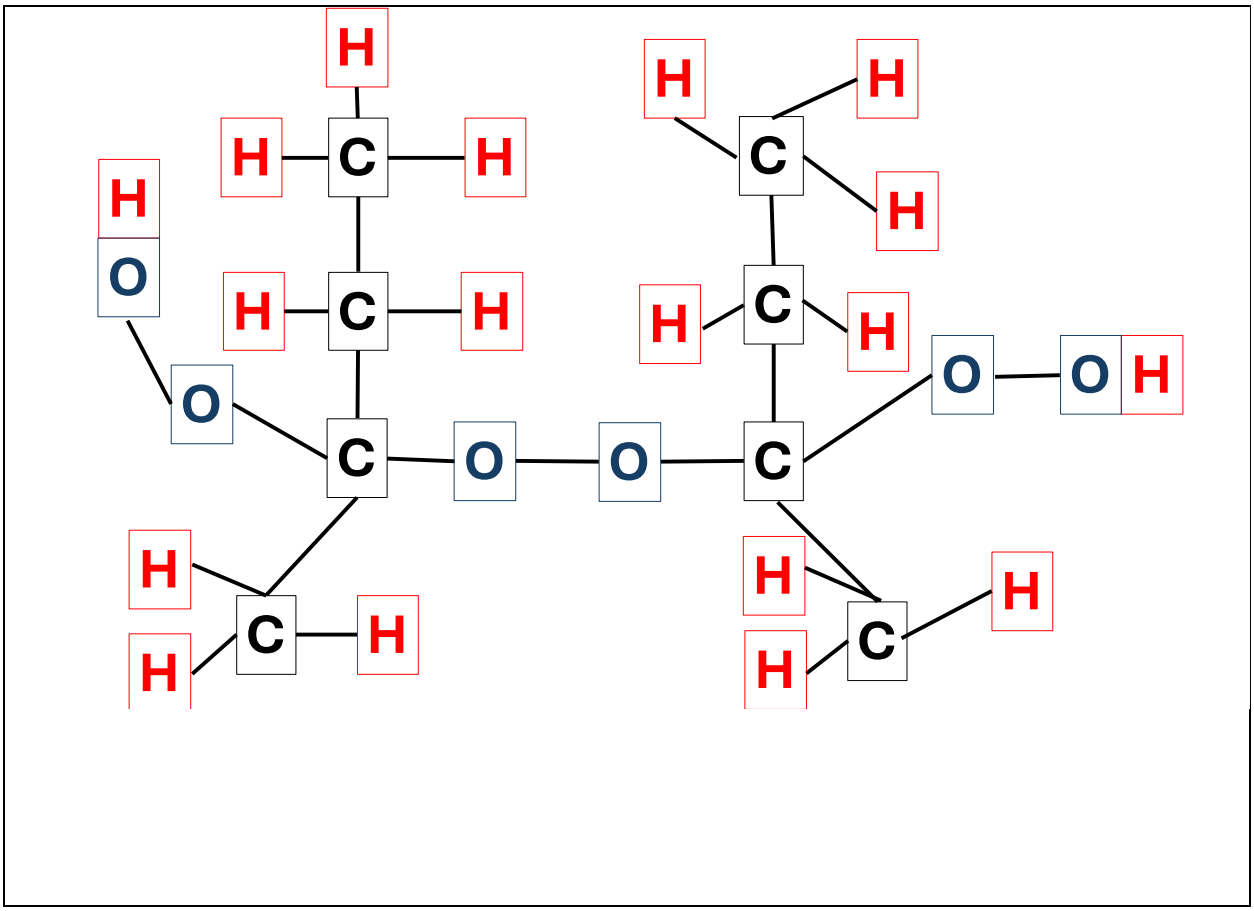
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Methyl Ethyl Ketone Peroxide, 2-Butanone Peroxide, MEKP, MEK Peroxide, Methyl Ethyl Ketone Hydroperoxide, 1338-23-4
UN Number	-
Chemical Formula	$C_8H_{18}O_6$
Hazards	Organic Peroxide
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	CO_2, dry chemical, ATC AFFF Foam
Decontamination	Water with a surfactant (soap)
Detection and Monitoring	Colormetric, electrochemical sensor, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless liquid with characteristic odor
Vapor Pressure	.03 ATM
Boiling Point	~244°F (violently decomposes at BP)
Vapor Density	-
Specific Gravity	~1.12
Miscibility	soluble
Flash Point	125-200°F
LEL/UEL	-/-
Autoignition Temp	-
pH	-
Toxicity	
IDLH	-
PEL/REL/STEL	-/.2 ppm (Ca)/-
LD50	-
LC50	-
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Toxic by inhalation, ingestion, contact
Signs/Symptoms of Exposure	Respiratory symptoms, irritation of skin, cough, blurred vision, blisters, eye irritation
Medical Treatment	Fresh air and treat symptomatically
Other Information	
Violently decomposes at 244°F, strong oxidizer, heat and shock sensitive, shipped diluted to 40% to reduce shock hazard	
Chemical Structure	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