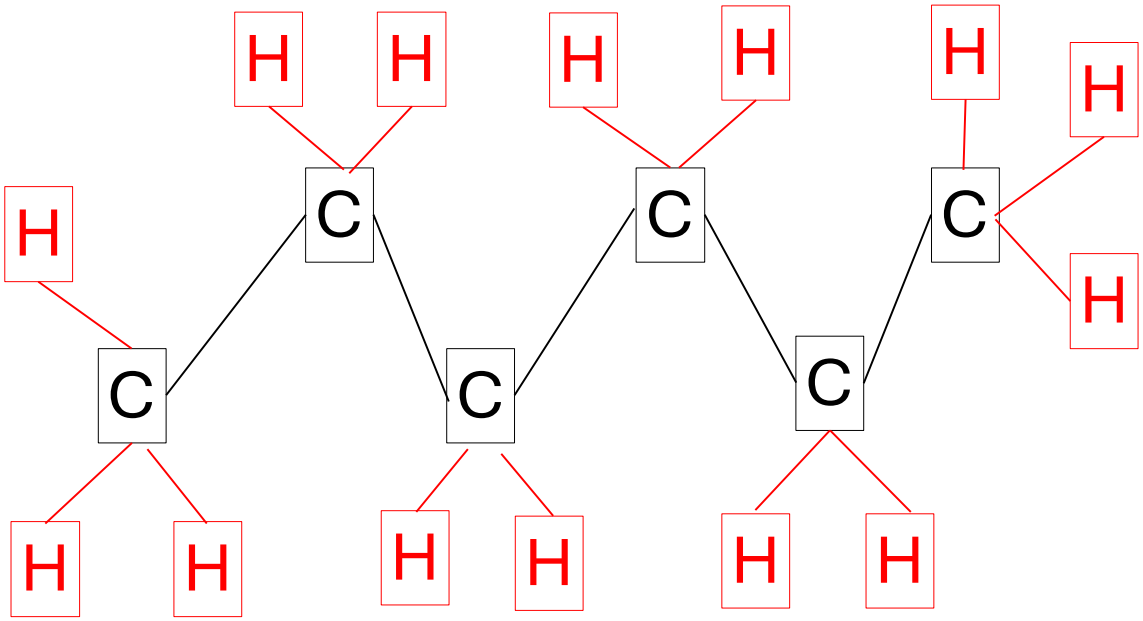
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Hexane, n-Hexane, Hexyl hydride,
UN Number	1208
Chemical Formula	C_6H_{14}
Hazards	Toxic, flammable liquid that may cause cancer
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers
Decontamination	Ventilation, soap and water, flooding water/flushing
Detection and Monitoring	Colormetric, electrochemical sensor, PID IP = 10.18 ev, spectroscopy
Chemical and Physical Properties	
Physical State	Colorless liquid with gasoline like odor
Vapor Pressure	124 mmHg
Boiling Point	156°F
Vapor Density	~2.97
Specific Gravity	~.66
Miscibility	<1% in water
Flash Point	-7°F
LEL/UEL	1.1% / 7.5%
Autoignition Temp	437°F
pH	-
Toxicity	
IDLH	N/A (CA)
PEL/REL/STEL	500 ppm/50 ppm/1000 ppm (all vacated)
LD50	15,000 mg/kg
LC50	259,354 mg/m^3 (4 hours)
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Inhalation, injection, contact
Signs/Symptoms of Exposure	Respiratory symptoms, skin and eye irritation and burns, eye damage, chest tightness, CNS N & V
Medical Treatment	Fresh air and treat symptomatically, flush areas of contact with copious amounts of water
Other Information	
Incompatible with oxidizers	

Chemical Structure