Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Gasoline, Motor fuel, Motor spirits, Natural gasoline,
UN Number	1203
Chemical Formula	Varies
Hazards	flammable, skin and eye irritant, carcinogen
NFPA Hazard Class (**H-F-R-O**)	**1 – 3 – 0 –**
PPE Considerations	SFPC with SCBA or APR/PAPR based on assignment
Fire Fighting Considerations	ATC AFFF, dry chemical, CO_2
Decontamination	Water with surfactant
Detection and Monitoring	Colormetric, spectroscopy, CGI/FGI,
Chemical and Physical Properties	
Physical State	Clear liquid
Vapor Pressure	38-300 mm/Hg
Boiling Point	102°F
Vapor Density	3 - 4
Specific Gravity	.7-.8
Miscibility	Insoluble
Flash Point	-45°F
LEL/UEL	1.4% / 7.6%
Autoignition Temp	853°F
pH	-
Toxicity	
IDLH	Ca
AEGL1/AEGL 2/AEGL 3 – 10 Min	- / - / -mg/kg
Protective Action Criteria (PAC) 1/2/3	200 / 1000 / 4000 ppm
PEL/REL/STEL	- / Ca /-
LD50	14000 mg/kg (oral) >2000 mg/kg (dermal)
LC50	>5.2 mg/L
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Exposure by all routes.
Signs/Symptoms of Exposure	Respiratory s/s, irritation/burning of skin/eyes/respiratory tract, CSN s/s including dizziness, slurred speech, confusion
Medical Treatment	Fresh air, water flush, treat symptomatically
Other Information	
Gasoline is a mixture and may contain:	

Toluene, Pentane, Xylene, Trimethylbenzene, Butane, ethanol, benzene, heptane, cyclohexane, ethylbenzene, methylcyclohexane, naphthalene, cumene
Chemical Structure