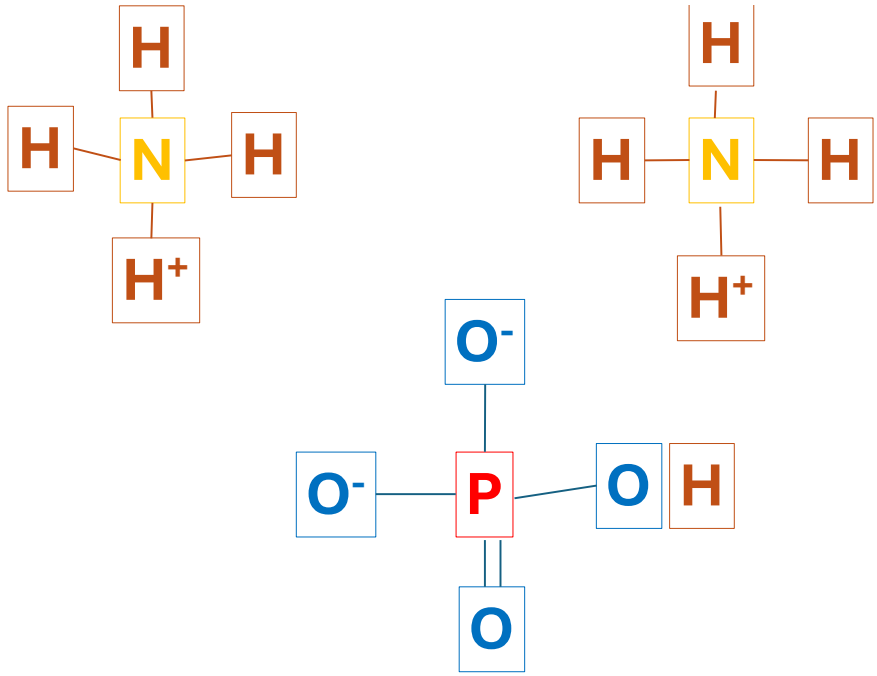
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Ammonium phosphate dibasic, Ammonium phosphate-monobasic, Ammonium dihydrogen orthophosphate, Ammonium biphosphate
UN Number	
Chemical Formula	$H_9N_2PO_4$
Hazards	Skin, eye, respiratory irritant
NFPA Hazard Class (H-F-R-Ⓞ)	2 – 0 – 1 –
PPE Considerations	SFPC with SCBA
Fire Fighting Considerations	Non-combustible
Decontamination	Flushing water or water with surfactant
Detection and Monitoring	Colorimetric, spectroscopy
Chemical and Physical Properties	
Physical State	White crystalline powder
Vapor Pressure	<.001 mm/Hg
Boiling Point	311°F - decomposes
Vapor Density	-
Specific Gravity	1.6
Miscibility	soluble
Flash Point	-
LEL/UEL	- / -
Autoignition Temp	-
pH	4 - 6
Toxicity	
IDLH	-
LC50	316 mg/m^3
LD50	>7950 mg/kg (dermal) >6500 mg/kg (oral)
AEGL1/AEGL 2/AEGL 3 – 10 Min	- / - / - ppm
Emergency Response Planning Guide (ERPG) 1/2/3	- / - / - ppm
Protective Action Criteria (PAC) 1/2/3	3.7 / 39 / 240 ppm
PEL/REL/STEL	- / - / -ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Eye, skin, respiratory
Signs/Symptoms of Exposure	Eye/skin/respiratory irritation
Medical Treatment	Fresh air, water flush, treat symptomatically

Other Information
Reacts wth Sodium Hypochlorite. Special Hazards of Combustion Products: Toxic and irritating fumes of ammonia and oxides of nitrogen may form in fires.
Chemical Structure