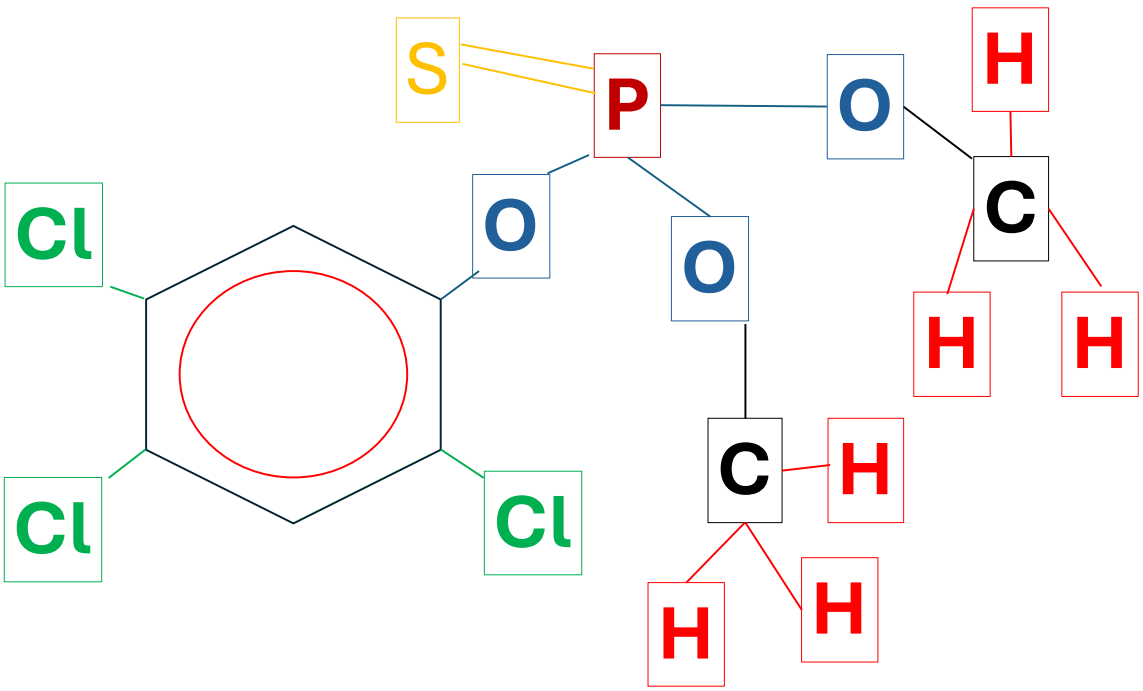
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Ronnel. O, O-Dimethyl O-(2, 4, 5-trichlorophenyl) phosphorothioate, Fenchlorophos, 299-84-3
UN Number	-
Chemical Formula	$(CH_3O)_2OC_6H_2Cl_3$
NFPA Hazard Class (H-F-R-O)	1 – 3 - 0
Hazards	Toxic solid (organophosphate) frequently found in solution.
PPE Considerations	SFPC or splash protection with SCBA or APR based on assignment
Fire Fighting Considerations	ATC AFFF, dry chem, CO_2
Decontamination	Water with surfactant, forced air for vapor exposure
Detection and Monitoring	spectroscopy, chemical sensor, colormetric, combustible gas detector or PID based on solvent
Chemical and Physical Properties	
Physical State	White to light tan crystalline solid often found in solution. Data below based on solid form
Vapor Pressure	.0008 mm/Hg
Boiling Point	Decomposes
Vapor Density	-
Specific Gravity	1.49
Miscibility/Solubility	.004%
Flash Point	-
LEL/UEL	- / - %
Autoignition Temp	-
pH	-
Toxicity	
IDLH	300 mg/m^3
AEGL1/AEGL 2/AEGL 3 – 10 Min	- / - / -
Protective Action Criteria (PAC) 1/2/3	- / - / -
Emergency Response Planning Guides (ERPG)	- / -/ -
PEL/REL/STEL	10 / 15 / - mg/kg
LD50	5628 mg/kg (oral) 15800 mg/kg (dermal)
LC50	3 mg/l

Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Hazardous by inhalation, ingestion, contact
Signs/Symptoms of Exposure	DUMBELLS
Medical Treatment	Fresh air, water flush, treat symptomatically, organophosphate protocol (atropine, 2-pam chloride)
Other Information	
Incompatible/reacts with oxidizers	
Chemical Structure