**Chemical of the Week – Part 2**

| Hazard Profile | |
|---|---|
| Chemical Name and Pseudonyms | Benzyl alcohol, phenylmethanol, benzenemethanol, phenylcarbinol |
| UN Number | - |
| Chemical Formula | $C_7H_8O$ |
| Hazards | Harmful if swallowed, skin irritant, eye irritant |
| NFPA Hazard Class (H-F-R-Ⓞ) | 1 – 1 – 0 – |
| PPE Considerations | CPC or SFPC with SCBA based on assignment |
| Fire Fighting Considerations | Water, $CO_2$, dry chem, ATC-AFFF |
| Decontamination | Water or water with surfactant |
| Detection and Monitoring | Colorimetric, raman, CGI, PID (IP = 8.3 eV) |
| **Chemical and Physical Properties** | |
| Physical State | Clear, colorless liquid |
| Vapor Pressure | .1 mm/Hg |
| Boiling Point | 401°F |
| Vapor Density | 3.72 |
| Specific Gravity | 1.05 |
| Miscibility | Soluble |
| Flash Point | 204°F |
| LEL/UEL | 1.3 / 13% |
| Autoignition Temp | 817°F |
| pH | * |
| **Toxicity** | |
| IDLH | - |
| LC50 | - |
| LD50 | 53 mg/kg |
| AEGL1/AEGL 2/AEGL (10 Min) | - / - / - |
| Emergency Response Planning Guide (ERPG) 1/2/3 | - / - / - |
| Protective Action Criteria (PAC) 1/2/3 | 30 / 52 / 740 ppm |
| PEL/REL/STEL | -/ - / - |
| Radioactive (Yes/No) | No |
| **Medical** | |
| Toxicological Considerations | Toxic by inhalation and ingestion, corrosive to skin and eyes |
| Signs/Symptoms of Exposure | Respiratory/skin/eye irritation, CNS s/s, cardiac |
| Medical Treatment | Fresh air, water flush, treat symptomatically. |

| Other Information |
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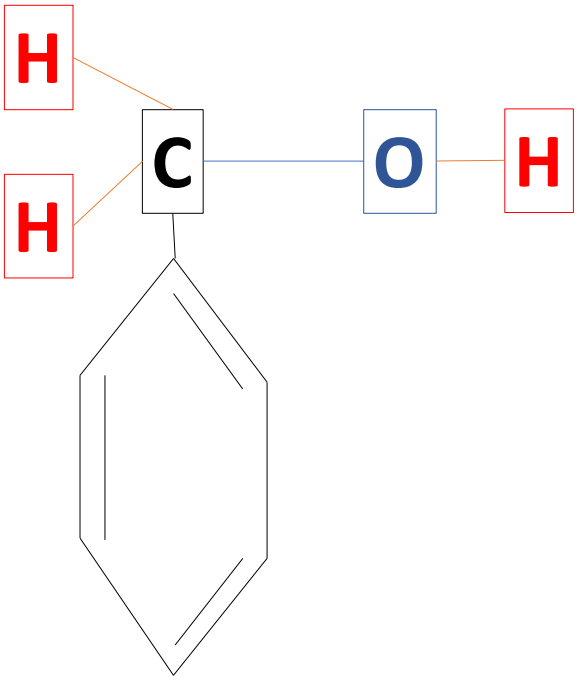
| Attacks plastics]. Mixtures with concentrated sulfuric acid and strong hydrogen peroxide can cause explosions. Mixtures of hydrogen peroxide and 1-phenyl-2-methyl propyl alcohol tend to explode if acidified with 70% sulfuric acid. Chlorine mixtures may violently explode. |
| **Chemical Structure** |
|  |