Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Nitric Oxide, nitrogen oxide, mononitrogen monoxide, nitrogen monoxide, 10102-43-9
UN Number	1660
Chemical Formula	NO
Hazards	Shipped as compressed gas (expansion ratio), oxidizer, forms nitric acid when in contact with water
PPE Considerations	SFPC or CPC with flash protection with SCBA based on task assignment
Fire Fighting Considerations	Use extinguishing method for exposed combustible
Decontamination	Ventilation, flooding water for emergency decontamination
Detection and Monitoring	Colormetric, electrochemical sensor, PID IP = 9.27 ev
Chemical and Physical Properties	
Physical State	Colorless compressed gas with sharp, unpleasant odor
Vapor Pressure	34.2 ATM
Boiling Point	-241°F
Vapor Density	1.04
Specific Gravity	-
Miscibility	Partially soluble in water (5%)
Flash Point	-
LEL/UEL	-
Autoignition Temp	-
pH	-
Toxicity	
IDLH	100 ppm
PEL/REL/STEL	25 ppm or 30 mg/kg^3/25 ppm or 30 mg/kg^3/-
LD50	-
LC50	~57 ppm or 1068 mg/m^3
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Forms nitric acid in contact with water
Signs/Symptoms of Exposure	Chemical burns, eye damage, respiratory irritation if exposed to vapors

Medical Treatment	Fresh air, flush expose skin with water and treat symptomatically
Other Information	
Incompatible with halogens and halogen compounds, strong oxidizer, converts in air to nitrogen dioxide	
Chemical Structure	