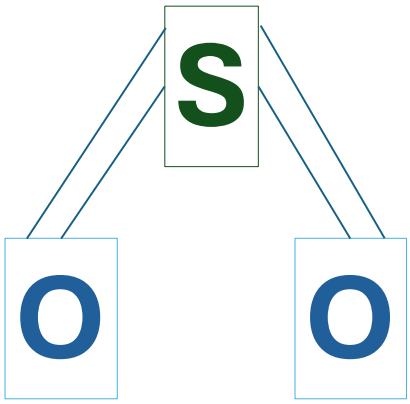
Chemical of the Week – Part 2

Hazard Profile	
Chemical Name and Pseudonyms	Sulfur Dioxide, Sulfurous Acid Anhydride, Sulfurous oxide, Sulfur Oxide, 2025884,
UN Number	1079
Chemical Formula	SO_2
Hazards	Toxic, compressed gas
PPE Considerations	CPC or SFPC with SCBA based on the task assigned
Fire Fighting Considerations	Use extinguishing method for exposed combustibles
Decontamination	Ventilation, water
Detection and Monitoring	Colormetric, electrochemical sensor, PID IP = 12.30 ev
Chemical and Physical Properties	
Physical State	Compressed gas with a pungent odor, liquid below 14°F
Vapor Pressure	3.2 ATM
Boiling Point	14°F
Vapor Density	2.26
Specific Gravity	-
Miscibility	10%
Flash Point	N/A
LEL/UEL	- / -
Autoignition Temp	-
pH	-
Toxicity	
IDLH	100 ppm
PEL/REL/STEL	5 ppm or 13 mg/kg^3 **/**2 ppm or 5 mg/kg^3 **/**5 ppm or 13 mg/kg^3
LD50	-
LC50	2520 ppm
Radioactive (Yes/No)	No
Medical	
Toxicological Considerations	Toxic by inhalation
Signs/Symptoms of Exposure	Respiratory, CNS, increased heart rate
Medical Treatment	Fresh air and treat symptomatically
Other Information	
Incompatible with alkali metals, water, ammonia, zinc, aluminum, brass, copper. Reacts with water to form sulfurous acid	

Chemical Structure