

ZnNDA | ZnOCT

Zinc Neodecanoate & Zinc Octoate

What's that smell? It stinks like rotten eggs!

What is this foul odor telling you about potential danger? It could be warning you of the presence of a toxic gas called hydrogen sulfide (H₂S).



Preventing and limiting human exposure to hydrogen sulfide gas is critical to ensuring the safety of workers in wastewater treatment plants, oil fields, refineries and paving.



Hydrogen sulfide (H₂S) is a toxic gas that poses significant environmental and human health risks. This colorless, flammable gas has a distinct, foul odor reminiscent of rotten eggs and is commonly found in areas such as wastewater, crude oil and asphalt. Hydrogen sulfide (H₂S) is detectable via its distinct rotten egg odor at concentrations as low as 10 ppb. At higher concentrations of 50ppm or more, H₂S can cause hazardous effects on the human body.

Preventing and limiting human exposure to hydrogen sulfide gas is critical to ensuring the safety of workers in wastewater treatment plants, oil fields, refineries and paving. Zinc Carboxylates, and specifically Zinc Octoates, are particularly effective in removing hydrogen sulfide from hydrocarbon-based materials, such as asphalt. Zinc Neodecanoate (Zn NDA) and Zinc Octoate (Zn Oct) act by irreversibly reacting with odor-causing molecules (e.g. hydrogen sulfide, thiols, thioalcohols), effectively reducing or eliminating the odor and concentration of H₂S.

Shepherd Chemical is a leading manufacturer of Zinc Octoate and Zinc Neodecanoate for H₂S scavenging and we continue to grow the product line with investments in product development and capacity. In addition to a standard portfolio of Zinc Octoate 22% and Zinc NDA 19%, Shepherd works with our customers to customize zinc concentrations and diluents to meet the unique requirements for their applications. In 2023, Shepherd will introduce a 50% growth in Zinc Octoate capacity at its Norwood, Ohio USA manufacturing facility that brings along the ability to supply bulk volumes.

