

## Sulfur-free heavy metal scavenger HM-18NS

Most of the heavy metal scavengers contain sulfur substance, which is an environmentally unfriendly product.

In view of this, we have specially developed this sulfur-free heavy metal scavenger HM-18NS, which is specialized in removing heavy metals from wastewater. At room temperature and wide pH range, it can react rapidly with various heavy metal ions such as Hg, Cd, Cu, Pb, Mn, Ni, Zn, Cr, etc. in wastewater to form water-insoluble flocs, which can be separated from the water and make the wastewater clearer. The amount of sludge is small, the heavy metal can be more compacted for removal.

This product is a sulfur-free compound, so it will not cause the secondary pollution to the environment.

### Physical properties

- Appearance: Colorless
- Solid content: 18.5±2.0%
- Insoluble substance: None
- Solubility: Easy soluble in water
- Stability: Very stable
- pH value: 10.0±1.0

### Characteristics / Features

- High stability:  
It forms stable polymer with heavy metal ions and will not precipitate under strong acidic and alkaline environments.  
The heavy metal chelates are very stable at temperatures ranging from -100 °C to 300 °C. Under natural conditions, the polymer can maintain stability for many years.
- High sensitivity:  
Very effective against trace metal ions in wastewater.
- Non-toxic:  
This product is a sulfur-free compound, so it will not cause the secondary pollution to the environment.  
Wide applicable:
  - a. Conventional heavy metal wastewater treatment, rare earth, mining, electroplating, electronics, PCB and other industrial wastewater treatment.
  - b. Unique efficacy in heavy metal treatment of fly ash in waste incineration power generation.

## Application

1. Add the HM-18NS directly into the wastewater, the recommended dosage is about 0.05 ~ 2/1000 of the wastewater and stir evenly. (depends on the concentration of metallic ions in the waste water. ) Adjust the pH to 8.5~9. While flocs are produced in water, add a small amount of PAM solution for better flocculation and sedimentation.
2. If the content of heavy metal ions in the wastewater is very high, you can use NaOH to raise the pH of the wastewater first, to precipitate most of the heavy metal ions. (Different metal ions have the most suitable pH range for settling, please adjust the pH accordingly), and then add an appropriate amount of HM-18NS to do the final metal settling treatment, which is beneficial to the subsequent treatment process.
3. HM-18NS can also be added to the pH adjustment tank.

## Package

- 25Kg / drum or 200Kg/drum
- Store in a dry cool place at room temperature in a tightly closed package away from direct light. Shelf life is 1 year.

## Safety discription

- Avoid direct contact with eyes and skin.  
In case of contact, rinse with plenty of water without delay.

### LIMITED WARRANTY INFORMATION - PLEASE READ BEFORE ANY APPLICATION:

- The data presented in this brochure are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt.
- We reserve the right to alter product constants within the scope of technical progress or new developments.
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