Vapor Technologies Inc.

Specialty Environmental Chemicals & Equipment

Product Data Sheet

Product Name: Mercaptolyte 200

Description: Chemical media designed to neutralize mercaptan odors through encapsulation/oxidation. This product alone will help encapsulate mercaptan residues, providing moderate odor control. However, when mixed with sodium hypochlorite solution and applied, it provides immediate oxidation of the mercaptan.

Product Uses & Applications

- **Tank Cleaning**
- **LEL Control**
- **Line Cleaning**
- **Spill Control**
- **Rail Car Cleaning**

Hazardous Information

Specific Hazard	**Eye and skin irritant**
Flash Point (°F)	**Above 220**
Biodegradability	**Excellent**
pH	**10.5 to 11.5**
Unusual Hazards	**See Precautions Below**
Other Information	**Do not use Hydrogen Peroxide!**

Application Instructions

Dilution Rate (Mercaptolyte 200)	5:1 with water
Application Rate	10:1 (See Supplemental Section Below)
Special Instructions	For treating specific tank volumes read below.

Specific Tank Volumes (not taking into effect mercaptan volume)

To flood a given tank volume, follow these simple steps:
For Mercaptolyte 200, multiply tank volume (gal.) x .10
For Water mix with Mercaptolyte 200, multiply tank volume x .4
For Sodium Hypochlorite needed, multiply tank volume x .5
**Mix Mercaptolyte 200 and water first, then mix in sodium hypochlorite.*

Packaging Information

Available Quantities	5,30, 55, and bulk quantities
Packaging Material	Poly

Other Information:

Do not let product freeze.

Supplemental Application Data

Application Instructions (when mixed with the oxidizer):

In order to reduce the effect of an exothermic reaction, follow these simple tips:

- It takes 10 parts of the Mercaptolyte/Water/Bleach mixture to safely neutralize 1 gallon of pure mercaptan. Thus, for a tank that has 20 gallons of mercaptan heel, you will need 200 gallons of the mixture to neutralize that product.
- Make sure you determine amount of heel to be treated so that you have the proper amount of chemical made-up.
- If after the application you notice a significant heat reaction, add extra water to help cool the liquid.

Precautions when using Sodium Hypochlorite:

When using the oxidizer (sodium hypochlorite), it is important to know the following facts:

#1: The reaction with Mercaptan will generate an acidic off-gas. This being said, the vessel being cleaned must be vented to the air or a chemical scrubber. Failure to do so could result in an explosion or rupture of the tank.

#2: The acid off-gas may need to be treated by a chemical scrubber. The acid is sulfuric in nature.

#3: An exothermic reaction does take place during the process. Make sure to have extra water and ventilation available in case temperature gets to an unsafe level.

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