



# DATASHEET

## 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
- Spill Control
- LEL Control
- Rail Car Cleaning
- Line Cleaning

### PRODUCT DILUTIONS (2 Examples)

#### Chemical Requirements when Neutralizing Pure Mercaptan Heel

1. To determine Mercaptolyte 200 needed (gallons), multiply heel x 1.5
2. To determine water needed (gallons), multiply Mercaptolyte 200 x 5
3. To determine sodium hypochlorite (12.5%) needed, add #1 and #2 together. Note: Follow instructions below on how to apply this mixture.

#### Chemical Requirements when Cleaning Specific Tank Volumes (No Heel)

To flood a given tank volume, follow these simple steps:

1. To determine Mercaptolyte 200 needed, multiply tank volume (gal) x .05
2. To determine water needed, multiply tank volume x .65
3. To determine Sodium Hypochlorite (12.5%) needed, multiply tank volume x .30 \*Mix Mercaptolyte 200 and water first, then mix in sodium hypochlorite.

### HAZARDOUS INFORMATION

Specific Hazard	Eye and skin irritant
Flash Point (°F)	Above 220°
Biodegradability	Excellent
pH	10.5-11.5
Unusual Hazards	See precautions below
Other Information	Do not use Hydrogen Peroxide

### PACKAGING INFORMATION

Available Quantities	5,30,55,275 and bulk
Packaging Material	Poly
Other Information	Do not let product freeze.

### APPLICATION INSTRUCTIONS/PRECAUTIONS:

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## APPLICATION INSTRUCTIONS/PRECAUTIONS

### Application Instructions (How to apply mixture to heels):

1. Immediately mix the three chemical amounts which were determined under Product Dilutions. Make sure to mix Mercaptolyte 200 and water first, then sodium hypochlorite.
2. Make sure vessel containing mercaptan heel is vented to a scrubber or other emission control device!
3. Slowly introduce mixture into vessel containing heel.
4. Watch for temperature spikes. Add more water as needed.
5. Once added, agitate mixture as much as possible.
6. After at least one hour the mixture should have significant less odor.
7. Allowing to set for up to 12 hours may be necessary.
8. Adding more chemical media may be necessary in some cases to complete neutralization.

### Precautions when using Sodium Hypochlorite (12.5%):

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.

## GHS SAFETY DATA SHEET

### 'MERCAPTOLYTE 200'

#### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name..... MERCAPTOLYTE 200  
 Chemical Use..... Mercaptan Encapsulator  
 Chemical Family..... Mixture  
 Issue Date of SDS..... July 7, 2014  
 Revision Date of SDS..... 1/31/2022

**MANUFACTURER:**

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#### SECTION 2 - HAZARDS IDENTIFICATION

**GHS CLASSIFICATION: NON-HAZARDOUS**

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Skin Corrosion/Irritation: Category 3	None Known	None Known
Eye Damage/Irritation: Category 2B		

**GHS LABEL:**

**NO SYMBOL**

**SIGNAL WORD:**

**WARNING**

#### Hazard Statements

H316: Causes mild skin irritation.  
 H320: Causes eye irritation.

#### Precautionary Statements

P264: Wash hands thoroughly after handling.  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.  
 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332 + P313: If skin irritation occurs: Get medical advice/attention.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.

	<u>NFPA</u>
Health	1
Flammability	0
Reactivity	0
Special Notice	-

<u>HMIS</u>		
1	Health	0 - Minimal
0	Flammability	1 - Slight
0	Physical Hazard	2 - Moderate
B	PPE	3 - Serious
		4 - Severe
		B - Safety Glasses & Gloves

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS

Non-Ionic Surfactant

CAS#

9016-45-9

CONCENTRATION

10%

#### SECTION 4 - FIRST AID MEASURES

Eye Contact..... Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.  
 Skin Contact..... Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.  
 Inhalation..... If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.  
 Ingestion..... **DO NOT INDUCE VOMITING!** Drink one or two glasses of water and get medical attention immediately!

Suitable Extinguishing Media: ..... Use foam, carbon dioxide, or water spray to extinguish flames.

Unsuitable Extinguishing Media:..... No further relevant information available.

Combustion Products: ..... None.

Fire Fighting Instructions..... As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

## SECTION 6 - ACCIDENTAL RELEASE MEASURE

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.

Environmental Precautions..... Prevent entry of product into drains, sewers, surface or ground water.

Methods for Cleaning Up:..... Clean up spills immediately. Absorb spill with inert material (e.g., dry sand or earth), then place in a suitable container for disposal.

## SECTION 7 - HANDLING AND STORAGE

Handling:..... Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing and eye protection when handling this product. Use in well ventilated areas.

Storage..... Store in cool place in original container and keep away from direct sunlight. Keep container closed when not in use.

Shelf-Life..... One to two years normally.

Storage Temperature..... 5 - 43°C (41 - 110°F)

## SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

EXPOSURE LIMITS:	<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
	Non-Ionic Surfactant	Not Known	Not Known	Not Known

Engineering Controls..... Good general ventilation should be sufficient to control airborne levels.

### Personal Protective Equipment (PPE):

Eye Protection..... Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

Skin Protection..... Wear chemical resistant gloves.

Respiratory Protection..... For most situations, no respiratory protection is necessary.

General Hygiene Consideration..... There are no known health hazards associated with this product when used as recommended.

The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits..... Not established for product as whole.

## SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance..... Clear to slightly orange liquid.

Odor..... Pleasant fragrance.

Vapor Pressure..... Not Determined.

Odor Threshold..... Not Determined.

Vapor density..... Not Determined.

pH..... 10.5 to 11.5

Melting point/Freezing point:..... Not Determined / 30°F

Solubility in water..... 100%

Initial boiling point and range..... 220°F / Not Determined.

Flash Point..... None.

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Flammable.

Upper/Lower flammability or explosive limits:..... Not Established.

Auto igniting temperature..... Not Determined.

Decomposition temperature..... Not Determined.

Viscosity..... Not Determined.

Specific Gravity (water = 1)..... 1.05

## SECTION 10 - STABILITY & REACTIVITY

Reactivity..... No dangerous reaction known under conditions of normal use.

Chemical Stability..... Stable.

Hazardous Polymerization..... Will not occur.

Incompatibilities..... May etch aluminum and zinc.

Decomposition Products..... None determined.

Likely Routes of Exposure:..... Inhalation, Eye and Skin Contact

**Acute symptoms and effects:**

Eye..... May cause mild irritation and burning.  
 Skin..... Prolonged or repeated exposure may cause irritation.  
 Ingestion..... No hazard in normal industrial use.  
 Inhalation:..... Prolonged or repeated exposure may cause irritation.

Chronic Exposure:..... Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Toxicity Data: **LD50** Not Known **LC50** Not Known

Carcinogenicity..... Not a known carcinogen.

### SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:..... No further relevant information available.  
 Mobility in soil:..... No further relevant information available.  
 Degradability:..... Expected to readily biodegrade.  
 Bioaccumulation:..... No further relevant information available.

### SECTION 13 - DISPOSAL CONSIDERATION

**MERCAPTOLYTE 200** is not considered a hazardous waste under Federal Hazardous Waste Regulations 40 CFR 261. Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local authorities regarding the proper disposal of this material.

(Note: Adding chemicals, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate, or otherwise inappropriate).

### SECTION 14 - TRANSPORTATION INFORMATION

**A. USA:** **UN Number**..... Not Regulated.  
**D.O.T** **UN Proper Shipping Name**..... Not Regulated.  
**Packaging group**..... Not Regulated.  
**Technical Shipping Name**..... Liquid detergent.  
**D.O.T. Label**..... Not Regulated.  
**D.O.T. Placard**..... Not Regulated.  
**Freight Class Package**..... Class 55

**B. CANADA:** **TDG**..... Not Regulated.

**C. ENGLAND:** **Approved Carriage List**..... Not Regulated.

### SECTION 15 - REGULATORY INFORMATION

**A. USA:** **TSCA Status**..... All ingredients listed on TSCA Inventory.  
**SARA TITLE III, 302/303 EHS**..... None  
**SARA TITLE III, 304 HS**..... None  
**SARA TITLE III, 311/312**..... None  
**SARA TITLE III, 313**..... None

**B. CANADA:** **DSL/NDSL**..... All ingredients are listed.  
**WHMIS**..... Not Classified.

**C. EC:** **EINECS**..... All ingredients are listed.

### SECTION 16 - OTHER INFORMATION

For details on specific requirements, you should contact the appropriate agency in your state.

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