

MATERIAL SAFETY DATA SHEET

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Natural Gas Odorizing, Inc.

3601 DECKER DRIVE • P.O. BOX 1429
BAYTOWN, TEXAS 77522-1429

SECTION I PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME	RP CAPTAN (V)	Synonyms	None
CHEMICAL NAME	Blend - See Section II		
CHEMICAL FAMILY	Mercaptan & Alkyl Sulfide ✓		
PRODUCT APPEARANCE	Water White Liquid - Gassy Odor		
EMERGENCY TELEPHONE NUMBERS: NATURAL GAS ODORIZING, INC. (713) 424-5568 CHEMTREC 800-424-9300			

SECTION II HAZARDOUS COMPONENTS OF MIXTURES

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
t-Butyl Mercaptan	75-66-1	78-80	N.E.	N.E.
Methyl-Ethyl Sulfide	624-89-5	18-22	N.E.	N.E.

SECTION III HEALTH INFORMATION AND PROTECTION

FIRST AID & NATURE OF HAZARD

INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. If symptoms develop, obtain medical attention.

EYE CONTACT:

Flush eyes with running water for at least 15 minutes. If irritancy develops, obtain medical attention.

SKIN CONTACT:

Wash with soap and water.

INGESTION

No hazard in normal industrial use.

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PERSONAL PROTECTION

VENTILATION REQUIREMENTS — *Always maintain exposure below permissible exposure limits*

- Consult an industrial hygienist or environmental health specialist
 Local exhaust
 Use with adequate ventilation
 Check for air contaminant and oxygen deficiency
 Other (specify):

- | | | | | | |
|-----|--|---|---|--|--|
| EYE | <input checked="" type="checkbox"/> Face shield | HAND (GLOVE TYPE) | <input type="checkbox"/> Butyl rubber | <input type="checkbox"/> Polyvinyl alcohol | <input checked="" type="checkbox"/> Other (specify): |
| | <input checked="" type="checkbox"/> Safety glasses | <input type="checkbox"/> Polyvinyl chloride | <input type="checkbox"/> Neoprene | <input type="checkbox"/> Poly-ethylene | Any of these |
| | <input checked="" type="checkbox"/> Goggles | | <input type="checkbox"/> Natural rubber | | |

RESPIRATOR TYPE - *Use Only NIOSH approved equipment*

- Self-contained
 Supplied air
 Can or cartridge gas or vapor
 Filter - dust, fume, mist
 Other (specify):

OTHER PROTECTIVE EQUIPMENT

- Rubber boots
 Apron
 Other (specify): **N/A**

TOXICITY

Oral (acute)

N.E.

Dermal (acute)

May cause slight irritation.

Eye

May cause slight irritation.

Inhalation (acute)

May cause headache, nausea and difficult breathing.

Chronic, Subchronic, etc.

A subchronic (90 day) inhalation study with tertiary-butyl mercaptan in rats resulted in mild kidney effects (proximal tubular nephrosis) at concentrations from 10 ppm to 200 ppm.

SECTION IV FIRE & EXPLOSION HAZARD

Flash Point	Test Method	Flammable Limits	Autoignition Temperature/Fire Point
°C -10 °F setaflash		Lower N.E. % Upper N.E. %	°C N.E. °F

EXTINGUISHING MEDIA

- Water-spray
 Water fog
 Water stream
 CO₂
 Dry chemical
 Alcohol foam
 Foam
 Earth or sand

SPECIAL FIRE FIGHTING PROCEDURES

- Do not enter building
 Allow fire to burn
 Water may cause frothing
 Do not use water

Shut off source. Wear self-contained breathing apparatus in fire area.

UNUSUAL FIRE AND EXPLOSION HAZARDS

- Dust explosion hazard
 Sensitive to shock
 Contamination
 Temperature
 Other (specify):

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SECTION V SPILL, LEAK, AND DISPOSAL

Eliminate sources of ignition. Prevent additional discharge of material if possible to do so without hazard. Contain spill, keep out of water sources and sewers. Neutralize by adding household bleach (Clorox, Pur-ex) to the spill area. Absorb in dry, inert material (sand, clay, sawdust, etc.)

Waste Disposal - Insure conformity with all applicable regulations; incinerate if permitted.

SECTION VI TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Boiling Point/Range 145-151 °F	Melting Point N.A. °C	Freezing Point °C <-50 °F	Molecular Weight (Calculated) 87
Specific Gravity (H ₂ O = 1) 0.812 @ 15.5/15.5 °C	Vapor Pressure psia 5.6 @ °C	Vapor Density (Air = 1) 3.0	
Solubility in H ₂ O Negligible	% Volatiles by Volume 100	Evaporation Rate <input type="checkbox"/> Ether = 1 <input type="checkbox"/> Water = 1 <input type="checkbox"/> Butylacetate = 1	
Appearance and Odor Water White Liquid, Gassy Odor	Other		

SECTION VII REACTIVITY DATA

STABILITY? Stable	HAZARDOUS POLYMERIZATION OCCUR? Will not occur
CONDITIONS TO AVOID INSTABILITY N.A.	CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION N.A.

MATERIALS AND CONDITIONS TO AVOID INCOMPABILITY

Strong oxidizers, heat, open flames, sparks, ignition sources.

HAZARDOUS DECOMPOSITION PRODUCTS

Sulfur Dioxide (combustion)

SECTION VIII TRANSPORT & STORAGE

Store in cool, dry, well ventilated area. Protect from sources of ignition. Bond and ground during liquid transfer. Use product in closed system. Wash thoroughly after handling. Empty container may contain combustible materials.

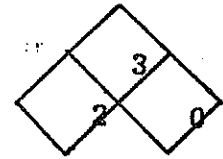
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PRODUCT NAME: RP CAPTAN (V)

SECTION IX TRANSPORT & STORAGE

SHIPPING NAME:	Mercaptan Mixture; Aliphatic
HAZARD CLASS:	Flammable Liquid
ID NUMBER:	NA 1228
MARKING:	Mercaptan Mixture; Aliphatic/NA 1228
LABEL:	Flammable Liquid
PLACARD:	Flammable/1228
SHIPPING DESCRIPTION:	Mercaptan Mixture; Aliphatic, Flammable Liquid, NA 1228



NFPA Code

SECTION X HAZARD CLASSIFICATION

U.S. DOT CLASSIFICATION	EPA HAZARDOUS SUBSTANCE	AMOUNT LBS.
FLAMMABLE LIQUID	N.A.	

OTHER

Product and/or Components Reported in EPA TSCA INVENTORY, 1980.

PREPARED BY: J. T. JOHNSON	DATE PREPARED 10-10-85	SUPERCEDES ISSUE DATE 11-11-82
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FOR ADDITIONAL PRODUCT INFORMATION CONTACT YOUR TECHNICAL SALES REPRESENTATIVE