

BARINATE B-70

Version: 1.0

<u>Date of Issue:</u> 09/07/2007

Date printed: 01/18/2008

1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** BARINATE B-70

Chemical name: Oil Soluble Barium Sulfonate

**Use of substance/preparation:** Petroleum Additive

**Supplier:** Chemtura Corporation

199 Benson Road

Middlebury, CT 06749 USA

Emergency telephone CHEMTREC (24 hours) 800-424-9300, 703-527-3887

**number**: Chemtura Corporation Emergency Response (24 hours) 800-292-5898

**Environmental, Health and** 

**Safety Department:** 

866-430-2775

**Customer Service:** 800 325 6252

Prepared by Product Safety Department Date of Issue: 09/07/2007

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## 2. HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	% BY WEIGHT
Barium Sulfonate CAS# Trade secret	40 - 45
Barium carbonate CAS# 513-77-9	10 - 15
One or more of the following: CAS# -	< 50

Distillates, Petroleum, Solvent-Refined Heavy Paraffinic

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**BARINATE B-70** 

CAS# 64741-88-4

Distillates (petroleum), hydrotreated heavy parafinic

CAS# 64742-54-7

Distillates (petroleum), solvent-refined heavy naphthenic

CAS# 64741-96-4

Distillates (petroleum), hydrotreated heavy naphthenic

CAS# 64742-52-5

Distillates, Petroleum, Solvent-Refined Light Paraffinic

CAS# 64741-89-5

water soluble barium compounds

CAS# Trade secret

< 0.5

## 4. FIRST AID MEASURES

## **Swallowing**

Obtain medical attention. Do not induce vomiting. Rinse mouth with water.

#### <u>Inhalation</u>

Remove to fresh air. Obtain medical attention. Aspiration may cause pulmonary edema or aspiration pneumonia.

#### Skin contact

Wash thoroughly with warm water using a mild soap. Remove contaminated clothing. Obtain medical attention if irritation persists.

# Eye contact

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

#### Notes to physician

WHEN MOLTEN ONLY (molten product can cause thermal burns) -

# 5. FIRE-FIGHTING MEASURES

Flash point:  $> 356 \,^{\circ}\text{F}$   $> 180 \,^{\circ}\text{C}$ 

NFPA CLASSIFICATION

Health: 1	Flammability: 1	Reactivity: 0	Special provisions:

#### Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

# Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear. Self-contained breathing apparatus.

Extinguishing media

Suitable: Extinguish with:

- dry chemical - CO2

- foam

- water fog

Unsuitable: - water jets

#### Unusual fire and explosion hazards

Heat from fire can generate flammable vapor.

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## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear suitable protective equipment., Eliminate sources of ignition.

#### Environmental precautions

Product has very low solubility in water., Prevent from entering sewer system, surface water or soil.

#### Methods for cleaning up

Absorb on inert material such as sand, earth, vermiculite.

Collect for disposal.

Large spill:

Dike to contain spill.

Pump product to salvage tank.

## 7. HANDLING AND STORAGE

#### **HANDLING**

#### Handling precautions

Electrically bond and ground all containers and equipment before transfer or use of material., Avoid contact with eyes, skin and clothing., Avoid breathing vapor, aerosol and mist., Use with adequate ventilation., Wash thoroughly after handling.

Electrically bond and ground all containers and equipment.

#### **STORAGE**

# Storage requirements

Store in a cool, dry place., Keep container tightly closed.

<u>Further information on storage</u> Keep away from strong oxidizing agents.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **EXPOSURE LIMIT VALUES**

Component	Country	Type	<u>Value</u>	Remark	
water soluble barium compounds		TWA - ACGIH	0.5 mg/m3	as soluble barium compounds, calculated as barium	
Component Mineral Oil Mist	Tvpe TWA (mist), ACGIH	5.0 mg/m3  Value  10.0 mg/m3		Remark  If used in way that generates a "mist" observe the limits for Mineral Oil Mist.	
	STEL (mist), ACGIH				

# PERSONAL PROTECTION

#### Respiratory protection

A approved respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit., Self-contained breathing apparatus in high vapor concentrations.

#### Hand protection / protective gloves

Neoprene type gloves.

## Eye protection

Safety goggles.

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Skin protection

Rubber or plastic apron

Other protective equipment

Eye bath, Safety shower

**Industrial hygiene measures** 

Do not eat or drink at work.

ENGINEERING CONTROLS

<u>Ventilation</u>

Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE** 

Physical stateViscous liquidColorBrown

Odor Mild petroleum

OTHER PROPERTIES

Boiling point No data available.

Specific gravity (H2O=1) > 1 at 16 °C

**Density** > 1 g/cm3 at 16 °C

Vapor pressure Negligible

Solubility in water Insoluble
Solubility in organic solvents Soluble

**Partitioning coefficient** log POW: > 6

This product is soluble in oil.

Method: Cleveland open cup ASTM D 92

Percent volatiles N

Kinematic viscosity > 30 mm2/s at 40 °C

# 10. STABILITY AND REACTIVITY

Stability: Stable.

**Incompatible materials:** 

Stable under normal conditions.

Hazardous polymerization: Will not occur.

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# **BARINATE B-70**

#### 11. TOXICOLOGICAL INFORMATION

SWALLOWING Test results

Acute toxicity: LD50 Rat

Result: > 2,000 mg/kg

SKIN CONTACT Acute effects May cause irritation.

EYE CONTACT Acute effects May cause irritation.

## 12. ECOLOGICAL INFORMATION

No information available.

# 13. DISPOSAL CONSIDERATIONS

General: Do not discharge to sewers and natural waters., Incinerate in a furnace where permitted under national and local

regulations.

#### 14. TRANSPORT INFORMATION

#### **DOT Classification**

Not regulated if shipped or transported at temperatures under  $100^{\circ}$ C ( $212^{\circ}$ F) or in containers less than 450 liter. If shipped at temperatures >=  $100^{\circ}$ C ( $212^{\circ}$ F) and in containers >= 450 liters ( $119^{\circ}$  US gal), this product is regulated as: ELEVATED TEMPERATURE LIQUID, N.O.S., Class 9, UN 3257, PGIII, ERG 128.

#### **IMDG Classification**

Not regulated if shipped or transported at temperatures under  $100^{\circ}$ C (212 °F) or in containers less than 450 liter.

Proper shipping name: If shipped at temperatures >= 100 °C (212 °F) and in containers >= 450 liters (119 US gal), this product is

regulated as: ELEVATED TEMPERATURE LIQUID, N.O.S., Class 9, UN 3257, PGIII, ERG 128.

# ICAO Classification

This product is not regulated by ICAO @ <100°C

FORBIDDEN BY AIR @ >= 100°C

# 15. REGULATORY INFORMATION

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.

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Components present in this product at a level which could require reporting under the statute are:

Chemical nameCAS#Max weight %Barium SulfonateTrade secret40.00 - 45.00Water Soluble Barium Compounds-< 0.50</td>Barium carbonate513-77-910.00 - 15.00

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name CAS# New Jersey TS Number

Barium Sulfonate Trade secret 136411-5423P

Barium carbonate 513-77-9

One or More of the Following Mineral Oils (Severely Treated) - 64742-54-7, 64741-96-4,

64742-52-5, 64742-54-7, 64741-89-5

Oil soluble barium compounds Trade secret CHEM538

# CHEMICAL INVENTORY

Canada: This product is on the NDSL.

**Europe:** The ingredients of this mixture are on the EINECS inventory.

United States:
Australia:
China:
This product is on the TSCA inventory.
This product is on the AICS inventory.
This product is on the IECSC Inventory.
This product is on the ENCS inventory.
This product is on the ENCS inventory.

Korea: This product is listed on the Existing Chemicals List (ECL).

Philippines: This product is on the PICCS.

# 16. OTHER INFORMATION

#### FURTHER INFORMATION

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

## HMIS RATING

Health: 1	Flammability: 1	Reactivity: 0	PPI:		
STP	Standard temperature and pressure				
W/W	Weight/Weigh 0 (HMIS)	nt			
1 (HMIS)	Slight hazard				
2 (HMIS)	Moderate hazard				
3 (HMIS)	Serious hazard				
4 (HMIS)	Severe hazard				
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions				

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN CHEMTURA CORPORATION. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT

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ARE NOT WITHIN THE CONTROL OF CHEMTURA CORPORATION, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.

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