

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixtures  
 Product name : 40MBT  
 Product code : 401220

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Scale and Corrosion Inhibitor

#### 1.3. Details of the supplier of the safety data sheet

Dober Chemical Corp  
 543 Forest Road  
 Humboldt Industrial Park  
 Hazle Township, PA 18202 - US  
 T 630-410-7300 - F 630-410-7444  
[regulatory@dober.com](mailto:regulatory@dober.com) - [www.dober.com](http://www.dober.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-255-3924 / 1-813-248-0585  
 ChemTel

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Met. Corr. 1 H290  
 Skin Corr. 1B H314  
 Skin Sens. 1 H317  
 Aquatic Acute 1 H400  
 Aquatic Chronic 1 H410

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H290 - May be corrosive to metals  
 H314 - Causes severe skin burns and eye damage  
 H317 - May cause an allergic skin reaction  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) :

P234 - Keep only in original container.  
 P260 - Do not breathe mist, spray, vapors.  
 P261 - Avoid breathing mist, spray, vapors.  
 P264 - Wash hands, forearms and face thoroughly after handling.  
 P272 - Contaminated work clothing must not be allowed out of the workplace  
 P273 - Avoid release to the environment.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
 P302+P352 - If on skin: Wash with plenty of soap and water  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a doctor  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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P363 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material-damage.  
P391 - Collect spillage.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose in a safe manner in accordance with local/national regulations

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

1.12% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)  
1.12% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)  
4.44% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Sodium Mercaptobenzothiazole	(CAS-No.) 2492-26-4	30 - 60	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodium Hydroxide	(CAS-No.) 1310-73-2	1 - 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person.  
First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.  
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Immediately call a poison center or doctor/physician. If skin irritation or rash occurs: Get immediate medical advice/attention. Wash contaminated clothing before reuse.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage.  
Symptoms/effects after inhalation : May cause an allergic skin reaction.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Reactivity : Thermal decomposition generates : Corrosive vapors.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Absorb spillage to prevent material-damage.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, spray, vapors. Avoid breathing mist, spray, vapors.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Direct sunlight.

Packaging materials : Store in corrosive resistant container with a resistant inner liner.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

40MBT		
ACGIH	Not applicable	
OSHA	Not applicable	
Sodium Mercaptobenzothiazole (2492-26-4)		
ACGIH	Not applicable	
OSHA	Not applicable	
Sodium Hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or face shield.

Skin and body protection : Wear suitable protective clothing.

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Respiratory protection	: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other information	: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: amber
Odor	: None
Odor threshold	: No data available
pH	: 14
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.204
Solubility	: Water: 100 %
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

#### 10.2. Chemical stability

Stable under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases. metals. May be corrosive to metals.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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Acute toxicity : Not classified

<b>Sodium Mercaptobenzothiazole (2492-26-4)</b>	
LD50 oral rat	1476 mg/kg
LD50 dermal rabbit	> 7940 mg/kg
LC50 inhalation rat (mg/l)	> 8.2 mg/l (Exposure time: 6 h)
ATE US (oral)	1476.000 mg/kg body weight

<b>Sodium Hydroxide (1310-73-2)</b>	
LD50 oral rat	325 mg/kg
LD50 dermal rabbit	1350 mg/kg
ATE US (oral)	325.000 mg/kg body weight
ATE US (dermal)	1350.000 mg/kg body weight

Skin corrosion/irritation : Causes severe skin burns and eye damage.  
pH: 14

Serious eye damage/irritation : Not classified  
pH: 14

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause an allergic skin reaction.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

<b>Sodium Mercaptobenzothiazole (2492-26-4)</b>	
LC50 fish 1	0.3 - 1.1 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	1.9 - 5.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	3.8 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

<b>Sodium Hydroxide (1310-73-2)</b>	
EC50 Daphnia 1	40 mg/l

### 12.2. Persistence and degradability

<b>40MBT</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>40MBT</b>	
Bioaccumulative potential	Not established.

<b>Sodium Mercaptobenzothiazole (2492-26-4)</b>	
Log Pow	-0.46

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on global warming : No known effects from this product.

Other information : Avoid release to the environment.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

UN-No.(DOT) : UN1719  
UN-No. (IMDG) : 1719  
UN-No. (IATA) : 1719

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Caustic alkali liquids, n.o.s.  
(Sodium Mercaptobenzothiazole; Sodium Hydroxide)  
Proper Shipping Name (IMDG) : CAUSTIC ALKALI LIQUID, N.O.S.  
(Sodium Mercaptobenzothiazole; Sodium Hydroxide)  
Proper Shipping Name (IATA) : Caustic alkali liquid, n.o.s.  
(Sodium Mercaptobenzothiazole; Sodium Hydroxide)

#### 14.3. Transport hazard class(es)

Class (DOT) : 8 - Corrosive  
Hazard labels (DOT) : 8



Transport hazard class(es) (IMDG) : 8  
Hazard labels (IMDG) : 8



Transport hazard class(es) (IATA) : 8  
Hazard labels (IATA) : 8



#### 14.4. Packing group

Packing group (DOT) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

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### 14.5. Environmental hazards

Marine pollutant(DOT)	: No
Marine pollutant(IMDG)	: Yes
Marine pollutant(IATA)	: Yes

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### Sodium Hydroxide (1310-73-2)

CERCLA RQ	1000 lb
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#### Potassium Hydroxide (1310-58-3)

CERCLA RQ	1000 lb
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### 15.2. International regulations

#### CANADA

#### Sodium Mercaptobenzothiazole (2492-26-4)

Listed on the Canadian DSL (Domestic Substances List)

#### Sodium Hydroxide (1310-73-2)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Class E - Corrosive Material
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### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Revision date : 09/11/2019  
Other information : None.

Full text of H-phrases:

H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Dober SDS US

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*