




## Oxoflex® ZMTI

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA)
Trade Name(s): Oxoflex® ZMTI Oiled Powder	Chemical Name: 1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Rubber Compounding.
Issued By: Sovereign Chemical Company (Distributor) 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: May 1, 2025

## 2. HAZARDS IDENTIFICATION

### *Classification of the substance or mixture*

Information in accordance with US 29 CFR 1910.1200 (Hazcom 2012), Regulation (EC) No 1272/2008, 1907/2006/EC (REACH), and GHS.

Hazard Pictograms (CLP)	:  GHS07,  GHS08,  GHS09
Signal Word	: Warning
Hazard statements (CLP)	: <ul style="list-style-type: none"> <li>H302: Harmful if swallowed, Category 4</li> <li>H332: Harmful if inhaled, Category 4</li> <li>H317: May cause an allergic skin reaction, Category 1</li> <li>H361: Suspected of damaging fertility or the unborn child– Category 2</li> <li>H373: May cause damage to organs or state all organs affected, Category 2</li> <li>H410: Very toxic to aquatic life with long lasting effects, Category 1</li> </ul>
Precautionary statements (CLP)	: <ul style="list-style-type: none"> <li>P264: Wash skin thoroughly after handling.</li> <li>P270: Do not eat, drink or smoke when using this product.</li> <li>P301 + P312: IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.</li> <li>P330: Rinse mouth.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P304 + P340: IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.</li> <li>P312: Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>P261 – Avoid breathing dust/fume/gas/mist/vapors/spray</li> <li>P272 - Contaminated work clothing should not be allowed out of the workplace</li> </ul>

P280 - Wear protective clothing, eye protection, face protection, protective gloves  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
 P321 - Specific treatment (see supplemental first aid instructions on this label)  
 P333+ P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P363 - Wash contaminated clothing before reuse  
 P501 - Dispose of contents/ container to an approved waste disposal plant  
 P273 - Avoid release to the environment  
 P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P281: Use personal protective equipment as required.  
 P308 + P313: IF exposed or concerned: Get medical advice/attention.  
 P405: Store locked up.  
 P314: Get medical advice/attention if you feel unwell.  
 P273: Avoid release to the environment.  
 P391: Collect spillage. Hazardous to the aquatic environment  
 Other Hazard : No other information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mixture

Chemical Name	CAS No	EC No	Weight %	Classification
1,3-dihydro-4 (or 5)-methyl-2H-benzimidazole-2-thione, zinc salt	61617-00-3	262-872-0	≥ 96	H302: Harmful if swallowed, Category 4 H332: Harmful if inhaled, Category 4 H317: May cause an allergic skin reaction, Category 1 H361: Suspected of damaging fertility or the unborn child- Category 2 H373: May cause damage to organs or state all organs affected, Category 2 H410: Very toxic to aquatic life with long lasting effects, Category 1
Naphthenic oil	64742-53-6	265-156-6	3-4	

**4. FIRST AID MEASURES***Description of first aid measures*

First-aid measures general:	If symptoms persist, call a physician.
First-aid measures after inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician.
First-aid measures after eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.
First-aid measures after ingestion:	Rinse mouth Get medical attention Never give anything by mouth to an unconscious person

*Most important symptoms and effects, both acute and delayed*

Symptoms effects:	Harmful if swallowed. Harmful if inhaled. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
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*Indication of any immediate medical attention and special treatment needed*

General:	Treat symptomatically.
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**5. FIRE FIGHTING MEASURES***Extinguishing media*

Suitable extinguishing agents:	Dry chemical.
Unsuitable extinguishing agents:	Do not use water.

*Special hazards arising from the substance or mixture*

General:	Thermal decomposition can lead to release of irritating and toxic gases and vapors
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*Advice for firefighters*

General: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

**6. ACCIDENTAL RELEASE MEASURES***Personal precautions, protective equipment and emergency procedures*

General: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Avoid contact with skin, eyes and inhalation of vapors. Use personal protection recommended in Section 8

*Environmental precautions*

General: Prevent entry into waterways, sewers, basements or confined areas.

*Methods and material for containment and cleaning up*

General: Pick up and transfer to properly labeled containers.

*Reference to other sections*

General: See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**7. HANDLING AND STORAGE***Precautions for safe handling*

General: Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling it. Use personal protective equipment as required

*Conditions for safe storage, including any incompatibilities*

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep away from food, drink and animal feeding stuffs

*Specific end use(s)*

General: Not applicable.

## 8. EXPOSURE CONTROLS - PERSONAL PROTECTION

### *Control Parameters*

Occupational exposure limits:	No data available
Additional exposure limits:	No data available
Derived No Effect Level (DNEL):	No information available
Predicted No Effect Concentration (PNEC):	No information available

### *Exposure controls*

Appropriate engineering controls:	Ensure adequate ventilation, especially in confined areas.
Eye/face protection:	Wear safety glasses with side shields (or goggles) if necessary.
Hand protection:	Wear protective gloves.
Body protection:	Suitable protective clothing.
Respiratory protection:	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazard:	No additional information.
Environmental exposure controls:	Do not allow into any sewer, on the ground or into any body of water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### *Information on basic physical and chemical properties*

Form: Oiled Powder	Melting Point/Melting Range: No data available
Color: Off-white	Boiling Point/Boiling Range: No data available
Odor: Odorless	Octanol/Water Partition Coefficient: No data available
Odor threshold: Not determined	pH: Not determined
Vapor Pressure: No data available	Flash point: No data available

Specific gravity: 1.5 g/cm <sup>3</sup>	Flammability (solid, gaseous): Not determined.
Relative density No data available	Ignition temperature: Not determined.
Vapor Density: No data available	Decomposition temperature: Not determined
Evaporation rate: No data available	Self-igniting: Product is not self-igniting
Solubility in / Miscibility with water: Insoluble	Danger of explosion: Product does not present an explosion hazard
Viscosity Dynamic: Not applicable. Kinematic: Not applicable	Explosion limits Lower: Not determined Upper: Not determined

Other information:

No further relevant information available.

## 10. STABILITY AND REACTIVITY

### *Reactivity*

No hazardous reactions if stored and handled under normal conditions.

### *Chemical stability*

The product is stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air.

### *Possibility of hazardous reactions*

Reacts with acids under release of toxic and highly flammable carbon disulfide.

### *Conditions to avoid*

Keep away from heat, sparks, and flames. Avoid contact with strong oxidants.

### *Incompatible materials*

Strong oxidizing agents. Strong acids. Nitrate salts.

### *Hazardous decomposition products*

Hazardous combustion products: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>), Sulfur oxides, and metal oxides.

## 11. TOXICOLOGICAL INFORMATION

### *Information on toxicological effects*

Acute toxicity (oral): LD50 800 mg/kg bw

Acute toxicity (dermal): LD50 > 2,000 mg/kg bw

Acute toxicity (inhalation):	2.12 mg/L air
Skin corrosion/irritation:	Not irritant effect
Serious eye damage/irritation:	Not irritant effect
Respiratory or skin sensitization:	May cause sensitization by skin contact
Germ cell mutagenicity:	Not information available
Carcinogenicity:	Not classified
Reproductive toxicity:	Suspected of damaging fertility or the unborn child
STOT single exposure:	Not information available
STOT multiple exposure:	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard:	Not information available

## 12. ECOLOGICAL INFORMATION

### *Toxicity*

Crustacea:	NOEC: 0.47mg/L (48hr)
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### *Persistence and degradability*

Information:	Not readily biodegradability
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### *Bioaccumulation potential*

Information:	No information available
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### *Mobility in soil*

Information:	No information available
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### *Results of PBT and vPvB assessment*

Information:	PBT/vPvB assessment information is not available as chemical safety assessment not conducted
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### *Other adverse effects*

Information:	No other adverse effects
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## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Methods: Dispose of in accordance with all applicable local and national regulations.

## 14. TRANSPORTATION INFORMATION

### UN-Number

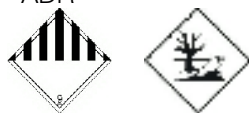
DOT N/A  
 ADR, IMDG, IATA UN3077

### UN proper shipping name:

DOT N/A  
 ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE  
 SOLID, N.O.S (1,3-dihydro-4(or 5)-methyl-2H-  
 benzimidazole-2-thione, zinc salt)  
 IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
 N.O.S. (1,3-dihydro-4(or 5)-methyl-2Hbenzimidazole-2-  
 thione, zinc salt), MARINE POLLUTANT  
 IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
 N.O.S. (1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-  
 thione, zinc salt)

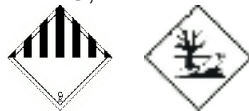
### Transport hazard class(es)

DOT Class N/A  
 ADR



Class 9 (M7) Miscellaneous dangerous substances and articles.  
 Label 9

### IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles.  
 Label 9

### Packing group

DOT N/A  
 ADR, IMDG, IATA III

### Environmental hazards

Marine pollutant Yes  
 Symbol (fish and tree)  
 Special Marking (ADR) Symbol (fish and tree)  
 Special Marking (IATA) Symbol (fish and tree)



Special precautions for user

Danger code (Kemler)

EMS Number

Warning: Miscellaneous dangerous substances and articles

90

F-A, S-F.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

Transport/Additional information

ADR

Limited quantities (LQ)

Transport category

Tunnel restriction code

UN "Model Regulation"

5 kg

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UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,3-dihydro-4(or 5)-methyl-2H-benzimidazole-2-thione, zinc salt), 9, III

## 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance

SARA Section 355 (extremely hazardous substances)	Not listed
SARA Section 313 (Specific toxic chemical listings)	Not listed
TSCA (Toxic Substances Control Act)	Listed
Proposition 65 (California)	
Chemicals known to cause cancer	Not listed
Chemicals known to cause reproductive toxicity for females	Not listed
Chemicals known to cause reproductive toxicity for males	Not listed
Chemicals known to cause developmental toxicity	Not listed
Carcinogenic Categories	
IARC (International Agency for Research on Cancer)	Not listed
TLV (Threshold Limit Value established by ACGIH)	Not listed
NIOSH-Ca (National Institute for Occupational Safety and Health)	Not listed
OSHA-Ca (Occupational Safety & Health Administration)	Not listed
Canada	
Canadian Domestic Substances List (DSL)	Listed
Canadian Ingredient Disclosure list (limit 0.1%)	Not listed
Canadian Ingredient Disclosure list (limit 1%)	Not listed
REACH	
REACH Candidate List	Not listed
REACH XIV List	Not listed

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.