

WESTERN RESERVE CHEMICAL

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CHEMTREC NUMBER 1/800-424-9300

MATERIAL SAFETY DATA SHEET

WESTCO ZMBT

1. Product Identifications

Product Name:	ZMBT	<u>CAS#</u>	<u>%</u>
Composition:	Zinc 2-mercaptobenzothiazole	155-04-4	85-89
	2-mercaptobenzothiazole	149-30-4	11-15

2. Physical Description/Properties

Specific Gravity:	1.7
Melting Point (C° Min):	200
PH Value	NA
Appearance:	Off white to pale yellow powder
Odor:	Slight
Solubility:	Soluble in dilute base. Solubility in water 90mg/liter @ 20°C
Volatiles %	<0.5
Zinc content, %	15-18
Sieve residue (100 mesh)	<0.1

3. Hazard Information

Combustible dust

Keep away from heat, sparks, flame and direct sunlight.

Eye irritant-Can cause redness, tearing and swelling.

Skin contact may cause allergic reaction.

Inhalation may cause upper respiratory irritation.

Ingestion of large quantities can cause headache, nausea, vomiting and gastrointestinal distress.

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4. First Aid Information

Skin:	Remove contaminated clothing and wash before re-use. Immediately wash contaminated skin with running water.
Ingestion:	Immediately rinse mouth with water. Induce vomiting only at the instruction of a physician. Seek immediate medical attention.
Eyes:	Flush with water for 15 minutes. Seek medical attention if irritation persists.
Inhalation:	Remove person to fresh air. Get immediate medical attention if breathing is difficult or short.

5. Handling and Storage

Storage:	Store in a dry well-ventilated area avoiding direct exposure to sunlight
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6. Employee Protection Recommendations

The employee should wear protective clothes and avoid direct physical contact with the product.

Eye Protection: Wear chemical safety glasses or goggles

Hand Protective Requirements: Wear protective gloves.

Skin Protective Requirements: Wear overalls.

Ventilation: Local exhaust

7. Toxicological Information

Low toxicity

LD50 acute oral for rats: 7500mg/kg

LD50 acute skin for rabbits: >7940 mg/kg

8. Fire and Explosion Data

Flash point: Not available

Exposure standard limits: Not available

Flammable

Extinguish Media: Carbon Dioxide, foam, sand or dry chemical.

Fire Hazard: Fire produces highly toxic sulfur dioxide gas.

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9. Reactivity

Chemical stability: Stable when stored in original container protected from heat and moisture.

Hazardous Polymerization: Does not occur.

Materials to avoid: Strong oxidizers, acids or caustic materials.

Hazardous products of decomposition: Carbon monoxide, oxides of nitrogen and sulfur.

10. Accidental Release and Disposal

Spills: Sweep and place in closable container. Avoid generation of dust. Wear appropriate protective clothing and safety devices. Do not use water to remove spilled material.

Disposal: Bury waste and empty containers in licensed landfill in adherence to federal, state and local regulations. ZMBT is not a RCRA hazardous waste;

11. Transportation Information

DOT Status	Class 9
DOT Shipping name	UN3077, Environmentally Hazardous Substance, Solid, N.O.S., (Zinc-2-Mercaptobenzothiazole), 9, III
DOT reportable qty. (lbs)	1001
ICAO/IATA Status	See DOT
UN/NA number	UN3077
IMDG Status	See DOT
TDG Canada	See DOT

12. Regulatory Information

Worldwide Inventory Status TSCA (USA):	Listed
Canadian DSL:	Listed
Canadian NDSL:	Not Applicable. Listed on the DSL.
EINECS/ELINCS (Europe):	Listed
Japanese Inventory (ENCS):	Listed
Korean Chemical Inventory (ECL):	Listed
Australian Chemical Inventories (AICS):	Listed
New Zealand (NZ):	Listed
Phillipines (PICCS) Inventory:	Listed
China (CLECS):	Listed
US Regulations Rules	
SARA Section 302:	None Found
SARA 311/312 Hazard Categories:	Immediate Delayed
SARA 313 Chemical:	As "Zinc Compounds", DeMinimis Concentration, 1.0%

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RCRA Status:	Not a RCRA waste.
Other Regulations:	
California Proposition 65:	NONE
New Jersey Right-to-Know List:	As "Zinc Compounds". NJ Substance #3012. Component 2-Mercaptobenzothiazole: New Jersey Substance ID#3710.
Pennsylvania Right to Know List	As "Zinc Compounds".
Florida Right to Know:	Not Applicable.
Minnesota Right to Know:	As "Zinc Compounds"
MA Right to Know Law:	As "Zinc Compounds"
FDA Status 21 CFR:	Regulated for Use under the following sections of 21 CFR: 177.2600 Rubber Articles Intended for Repeated Use in Food Contact. 175.10

13. Other Information

HMIS Classification Health 1 Flammability 1 Reactivity 0

Important Note: The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

5/09