

**Distributed By:**  
**Western Reserve Chemical**  
**4837 Darrow Road**  
**Stow, OH 44224**  
**Phone 330-650-2244**  
**Fax 330-650-2255**

## Material Safety Data Sheet

### ZBEC

#### Section I. Chemical Product and Company Information

Product Name /Trade Name	<b>ZBEC</b>	CAS # 14726-36-4
Synonyms	Zinc dibenzylidithiocarbamate, dibenzylidithiocarbamic acid, zinc salt	
Chemical Name	Zinc, bis(bis(phenylmethyl)carbamaodithioato-, kappa.S,.kappa S')- (T-4)	
<b>Chemtrec</b>	<b>800-424-9300</b>	
Chemical Family	dithiocarbamate	
Chemical Formula	C <sub>30</sub> H <sub>28</sub> N <sub>2</sub> S <sub>4</sub> Zn	
Material Uses	Vulcanizing agent, elastomer curing agent	
TSCA Status	listed	

#### Section II. Composition and Information on Ingredients

Name	CAS #	%, by weight
Zinc dibenzylidithiocarbamate	14726-36-4	<b>98-100</b>
White Mineral Oil	8042-47-5	<b>0-2</b>

#### Section III. Hazards Identification

##### Emergency Overview

White powder with characteristic odor. No data is available for toxicological properties of this material. Similar and related materials have been found to cause slight irritation of the eyes and skin.

#### Section IV. First Aid Measures

##### Eye Contact

Exposure may cause mild eye irritation. Flush eyes with saline solution, fresh water, or commercial eyewash solution for 15 minutes. Seek prompt medical attention.

##### Skin Contact

Wash affected areas with soap and water, dry and apply emollient. Wash contaminated clothing before re-use. If skin irritation persists, seek medical attention

##### Inhalation

Move victim to uncontaminated atmosphere. Seek prompt medical attention

##### Ingestion

Do not induce vomiting. Seek prompt medical attention

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### Section V. Fire and Explosion Data

Flammability of the product	No data available.	
Auto-Ignition Temperature	Not determined	
Flash Point	No data available	
Flammable Limits	No data available	
Products of Combustion	Oxides of carbon, nitrogen, and sulfur, and zinc.	
Explosion Hazards in Presence of Various Substances	No data available	
Fire Fighting Media	SMALL FIRE	Dry chemical media
	LARGE FIRE	Water spray, fog, or foam
Special Remarks on Fire Hazards	None	
Special Remarks on Explosion Hazards		

This material has not been evaluated for the potential for explosion when dispersed in air in critical concentrations. Care should be used to limit the potential for dust clouds as well as potential ignition sources, including static electricity, when dust clouds are present.

### Section VI. Accidental Release Measures

Small Spill	Collect material in a container suitable for disposal according to local, state, and federal regulations
Large Spill	Collect material in a container suitable for disposal according to local, state, and federal regulations

### Section VII. Handling and Storage

Storage	Store this material in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Use appropriate labels and markings.
Handling Procedures	Wash thoroughly after handling or use especially before eating, drinking, or smoking. Avoid eye contact and repeated or prolonged skin contact.

### Section VIII. Exposure Controls and Personal Protection

Engineering Controls	Use appropriate collection devices and avoid dispersing materials into air.			
Personal Protection	Safety glasses, protective clothing, and gloves are recommended. Use the appropriate breathing protection only if airborne particles are generated and are likely to approach or exceed minimum concentrations.			
TLV / PEL	ACGIH-TWA	ACGIH-STEL	OSHA TWA	OSHA STEL
No data found	No data found	No data found	No data found	No data found

### Section IX. Chemical and Physical Properties

Appearance	White powder
Molecular Weight	610.211
pH (1% solution in water)	Not applicable.
Boiling / Condensation Point	Not applicable
Melting / Sublimation Point	182° C
Specific Gravity(water=1)	1.35
Density	Not determined
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Volatility	Not applicable

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Odor / Odor Threshold	No data available.
Evaporation Rate	Not applicable
Viscosity	Not applicable
Water / Oil Distillation Coefficient	Not applicable
Solubility	No information available.

#### Section X. Stability and Reactivity Data

Stability	Stable
Instability Temperature	Not applicable
Conditions of Instability	Not applicable
Incompatible Materials	May react with acids.
Corrosivity	Not applicable
Special Remarks on Reactivity	None

#### Section XI. Toxicological Information

Routes of Entry	Eyes, inhalation, skin contact.
Toxicity to Animals	No data found.
Special Remarks on Toxicity to Animals	No data found
Acute Effects:	
Eye Contact	No data found. Eye contact may result in slight irritation based on effects of similar products.
Skin Contact	No data found. Skin contact may result in slight irritation based on effects of similar products.
Sensitization	No data found. Not expected to cause sensitization based on effects of similar products.
Ingestion	No data found.
Inhalation	No data found.
Other Remarks	None.
Chronic Effects on Humans	Carcinogenic Effects                      No data available.
Mutagenic Effects	No data available
Developmental Toxicity	No data available
Reproductive Toxicity	No data available
Remarks	None.

#### Section XII. Ecological Information

Ecotoxicity	No Ecotoxicity testing has been done on this product.
BOD5 and COD	No information available.
Products of Biodegradation	No information available
Toxicity of the Products of Biodegradation	No information available
Remarks on the Products of Biodegradation	No information available

#### Section XIII Disposal Considerations

##### Waste Information

For waste disposal purposes, this product is not known to be defined or designated as hazardous by the current provisions of the Federal (EPA)

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Resource Conservation and Recovery Act (RCRA, 40CFR261). Incinerate or landfill wastes in a properly permitted facility in accordance with Federal, state and local regulations.

Waste Stream No information available

### Section XIV. Transport Information

US DOT This product is not regulated for domestic and international transportation.

Remarks None

Maritime Transportation Not regulated.

### Section XV. Other Regulatory Information

Classifications OSHA (USA) Not regulated

US Federal & State Not regulated

Remarks None

National Fire Protection Association

Hazardous Material Information System (USA)

Health Hazard 1

Fire Hazard 1

Reactivity 0

Other Regulatory Agencies EINECS Not regulated, Compliant

CEPA NDSL Not regulated

Canadian NPRI Not regulated

Australia Not regulated

Japan (MITI) Not regulated

Personal Protective Equipment

Impervious gloves, aprons or other clothing is recommended if skin surface are exposed to this material.

Dust

masks or other respiratory protection is recommended if airborne concentrations exist above the minimum level for nuisance dusts. Eye protection is recommended if eye exposure is likely.

### Section XVI. Other Information

OSHA 29 CFR Part 1910 subpart Z

NIOSH The Registry of Toxic Effects of Chemical Substances

IARC Monographs

ACGIH Threshold Values for Chemical Substances and Physical Agents in the Work Environment

NTP Annual Report on Carcinogens

US EPA Chemical Registry System

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