

Sovchem[®] ZBEC

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): Sovchem [®] ZBEC Powder, Sovchem [®] ZBEC Oiled Powder	Chemical Name: Zinc dibenzyl dithiocarbamate
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Used as rubber accelerator in rubber goods manufacture.
Issued By: Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: March 1, 2026

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)	: No pictograms
Signal Word	: No signal word
Hazard statements (CLP)	: No hazard statement
Precautionary statements (CLP)	: No precautionary statement
Other Hazard	: This substance does not meet the criteria for PBT / vPvB of REACH regulation, annex XIII

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Chemical Name	CAS No	EC No	Weight %	Classification
Zinc dibenzyl dithiocarbamate	14726-36-4	238-778-0	≥ 97	Not classified

4. FIRST AID MEASURES

Description of first aid measures

First-aid measures general: In all cases of doubt, or when symptoms persist, seek medical attention

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:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, 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 eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion:	Rinse mouth. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

General: No information available.

Indication of any immediate medical attention and special treatment needed

General: Treat symptomatically. Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Physician should treat exposed patients symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents: Water fog. Foam. Dry chemical. Carbon dioxide (CO₂).

Unsuitable extinguishing agents: No information available.

Special hazards arising from the substance or mixture

General: Emits toxic fumes under fire conditions: hydrogen cyanide (HCN), sulfur dioxide (SO₂), nitrous oxides (NO_x). Dust suspended in air in critical proportions with a presence of an ignition source presents an explosion hazard.

Advice for firefighters

General: Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing. Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

General measures: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

Environmental precautions

General precautions: Local authorities should be advised if significant spillages cannot be contained. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

General methods and materials: Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal. Procedure for Cleaning/Absorption: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Scoop up and remove. Do NOT spread spilled product with water.

Reference to other sections

Sections: See Section 7 for more information
See section 8 for more information
See section 13 for more information

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. Take precautionary measures against static discharges. 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. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

General: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Keep away from food and drink. Store in accordance with local regulations.

Specific end use(s)

General: No other information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION*Control Parameters*

Derived No Effect Level (DNEL):

Workers:
Inhalation - Systemic effects - Long term exposure: 7 mg/m³
Dermal - Systemic effects - Long term exposure: 1000 mg/kg bw/day

General Population:
Inhalation - Systemic effects - Long term exposure: 2 mg/m³
Dermal - Systemic effects - Long term exposure: 600 mg/kg bw/day
Oral- Systemic effects- Long term exposure: 1 mg/kg bw/day

Predicted No Effect Concentration (PNEL):
STP: 100mg/L
Oral: 4.56 mg/kg food

Exposure controls

Engineering controls: Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product. Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with the applicable air pollution control regulations. Eliminate ignition sources.

Personal protective equipment: Wear safety glasses or goggles to protect against exposure. Use gloves as a standard industrial handling procedure. Appropriate chemical resistant gloves should be worn. All cleanable impervious glove types are acceptable. Suitable protective clothing.

Respiratory protection: In conditions where dust may be generated, wear a suitable dust mask.

Thermal hazard: No additional information available

Environmental exposure controls: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Form: Solid, powder	Melting Point/Range: 178-180°C
Color: White	Boiling Point/Range: 330°C
Odor: Slight odor	Odor threshold: Not determined
pH: Not determined	Flash point: Not applicable
Vapor Pressure: Not determined	Flammability: Not flammable
Density at 20 °C: 1.42 g/cm ³	Ignition temperature: Not applicable
Relative density: Not applicable	Decomposition temperature: Not determined
Solubility: Water: 2.3µg/L @ 20°C	Partition coefficient (n-octanol/water): 5.41
Oxidizing properties: Not oxidizing	Explosion limits: Lower: Not applicable Upper: Not applicable

Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage and handling conditions.

Chemical Stability: Stable when stored at room temperature in closed original container. Stable under normal conditions of handling, use and transportation.

Possibility of hazardous reactions: No other hazardous reactions known. Hazardous polymerization does not occur.

Conditions to avoid: Heat, flames and sparks. Incompatible materials.

Incompatible materials: Strong acids. Strong oxidizing agents.

Hazardous decomposition products: Carbon monoxide, oxides of nitrogen, oxides of sulfur, toxic zinc metal fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Not classified.

Zinc dibenzyl dithiocarbamate (CAS #: 14726-36-4)	
LD50 oral rat	> 5,000mg/kg
LD50 dermal rabbit	> 2,000 mg.kg

Skin corrosion/irritation: Not classified.

Serious eye damage: Not classified.

Sensitization: Not classified.

Germ cell mutagenicity: Negative. Not classified.

Carcinogenicity: It is concluded that ZBEC is not carcinogenic and the performance of a carcinogenicity study is not indicated.

Reproductive toxicity: Not classified.

STOT single exposure: Not classified.

STOT multiple exposure: Not classified.

Aspiration hazard: Not classified

Endocrine disrupting properties: The components are not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Other information: No information available

12. ECOLOGICAL INFORMATION

Toxicity

Not classified .

Persistence and degradability

8% degradation, 28d.

Not readily biodegradable.

Bioaccumulative potential

Log Pow = 5.41

Mobility in soil

Log Koc = 9.42

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating or toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Endocrine disrupting properties

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Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused products: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

UN-Number

DOT, ADR, IMDG, IATA Not regulated

UN proper shipping name

DOT, ADR, IMDG, IATA Not regulated

Transport hazard class(es)

DOT, ADR, IMDG, IATA Not regulated

Packing group

DOT, ADR, IMDG, IATA Not regulated

Environmental hazards
DOT, ADR, IMDG, IATA No

Special precautions for user No information available

Transport in bulk according to
Annex II of MARPOL73/78 and the
IBC Code Not applicable

15. REGULATORY INFORMATION

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

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 (National Institute for Occupational Safety and Health)	Not listed
OSHA (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 chemicals safety assessment has 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