

# Sovchem<sup>®</sup> ZDMC

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 <sup>®</sup> ZDMC Powder, Oiled Powder	Chemical Name: Zinc dimethyl 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 vulcanization accelerator in rubber goods manufacture.
Issued By: Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, Ohio 44333	Date of Issue: June 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)

:  GHS07,  GHS05,  GHS06,  GHS08,  GHS09

Signal Word

: Danger

Hazard statements (CLP)

: H302 - Harmful if swallowed, Category 4  
 H317 - May cause an allergic skin reaction, Category 1  
 H318 - Causes serious eye damage, Category 1  
 H330 - Fatal if inhaled, Category 2  
 H335 - May cause respiratory irritation, Category 3  
 H373 - Causes damage to organs through prolonged or repeated exposure, Category 2  
 H410 - Very toxic to aquatic life with long lasting effects, Category 1

Precautionary statements (CLP)

: P264- Wash hands thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product.  
 P301 + P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.  
 P330 - Rinse mouth.  
 P501 - Dispose of contents/ container to an approved waste disposal plant  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P272- Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P302 + P352 - IF ON SKIN: wash with plenty of soap and water.  
 P333 + P313 - IF SKIN irritation or rash occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 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 POISON CENTER or doctor/physician.  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
 P271 - Use only outdoors or in a well-ventilated area.  
 P284 - Wear respiratory protection.  
 P304 + P340 - IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P405 - Store locked up  
 P304 + P340  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
 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 : 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 dimethyl dithiocarbamate	137-30-4	205-288-3	≥ 97	H302 - Harmful if swallowed, Category 4 H317 - May cause an allergic skin reaction, Category 1 H318 - Causes serious eye damage, Category 1 H330 - Fatal if inhaled, Category 2 H335 - May cause respiratory irritation, Category 3 H373 - Causes damage to organs through prolonged or repeated exposure, Category 2 H410 - Very toxic to aquatic life with long lasting effects, Category 1

#### 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:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Immediate medical attention is required.
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:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
First-aid measures after ingestion:	Drink plenty of water. Do NOT induce vomiting. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

General:	Fatal if inhaled. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes serious eye damage. May cause an allergic skin reaction.
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##### *Indication of any immediate medical attention and special treatment needed*

General:	Treat symptomatically. Treatment may vary with condition of victim and specifics of incident. Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically.
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#### 5. FIRE FIGHTING MEASURES

##### *Extinguishing media*

Suitable extinguishing agents:	Carbon dioxide (CO <sub>2</sub> ), water spray (fog), powder, foam.
Unsuitable extinguishing agents:	No information available.

##### *Special hazards arising from the substance or mixture*

General: Thermal decomposition can lead to release of irritating and toxic gases and vapors, such as carbon oxides, sulfur oxides, nitrogen oxides, and zinc oxides.

*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.

## 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: Personal protection: P3 filter respirator for toxic particles. Do NOT let this chemical enter the environment. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder, then remove to safe place.

*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. Store away from strong oxidizing materials. Avoid exposure to direct sunlight. Keep locked up and out of reach of children. Keep away from food, drink and animal feeding stuffs. Store in accordance with local regulations.

*Specific end use(s)*

General: No other information available.

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

*Control Parameters*

Chemical Name	Latvia	France	Finland	Germany	Italy
Zinc dimethyl dithiocarbamate (CAS: 137-30-4)	-	-	-	TWA: 0.01 mg/m <sup>3</sup> Ceiling / Peak: 0.02 mg/m <sup>3</sup>	-

Derived no effect level (DNEL):

General: No information available  
No chemical safety assessment has been carried out.

Predicted no effect level (PNEC):

General: No information available  
No chemical safety assessment has been carried out.

*Exposure controls*

Engineering controls: Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition

Personal protective equipment: Suitable protective clothing.

Eye protection: Sufficient eye protection must be worn. Wear chemical safety goggles.

**Hand protection:** Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well-ventilated location. Pay attention to skin care. Textile or leather gloves are completely unsuitable. The following materials are suitable for protective gloves: Polyvinyl chloride - PVC, rubber.

**Respiratory protection:** In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear. Respiratory protection: Particle filter P2 or P3, color code white.

**Thermal hazard:** No 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: 250 °C
Color: White	Boiling Point/Range: Not applicable (decomposition from ca. 250 °C)
Odor: Odorless	Odor threshold: Not determined
pH: Not determined	Flash point: Not applicable
Vapor Pressure: 1.8x10E-5 Pa (20°C)	Flammability: Nonflammable
Density at 20 °C: 1.71 g/cm <sup>3</sup>	Ignition temperature: Not applicable
Relative density: Not available	Decomposition temperature: Not determined
Solubility: Water: 0.97 mg/L (20°C)	Partition coefficient (n-octanol/water): 1.65 (20 °C)

Oxidizing properties: Not determined	Explosion limits: Lower: Not applicable Upper: Not applicable
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Other information: No further relevant information available.

**10. STABILITY AND REACTIVITY**

Reactivity:	Stable under recommended storage and handling conditions.
Chemical Stability:	Stable under normal conditions.
Possibility of hazardous reactions:	The substance decomposes on heating and on burning producing toxic and irritating fumes. The substance decomposes on contact with acids.
Conditions to avoid:	Heat, flames and sparks. Incompatible materials.
Incompatible materials:	Oxidizing agents, acids, bases, acid halides, mercury.
Hazardous decomposition products:	Carbon oxides, sulfur oxides, nitrogen oxides, zinc oxides.

**11. TOXICOLOGICAL INFORMATION**

*Information on toxicological effects*

Acute toxicity: Harmful if swallowed. Fatal if inhaled.

Zinc dimethyl dithiocarbamate (CAS : 137-30-4)	
LD50 oral rat	320 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	0.13 mg/L/4h

Skin corrosion/irritation:	Non-irritating to the skin.
Serious eye damage:	Causes serious eye damage, rabbit.
Sensitization:	May cause an allergic skin reaction, guinea pig.
Germ cell mutagenicity:	Negative
Carcinogenicity:	Not suspected of causing cancer. IARC – 3 – not classifiable
Reproductive toxicity:	Not classified NOAEL (animal/female, F0/P) – 10 mg/kg rat
STOT single exposure:	May cause respiratory irritation.

STOT multiple exposure: May cause damage to organs through prolonged or repeated exposure.  
 Affected organs: red blood cells  
 Route of exposure: oral

Zinc dimethyl dithiocarbamate (CAS : 137-30-4)	
LOAEL (oral, rat, 90 days)	~7.4 mg/kg rat OECD 408
LOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg rabbit OECD 410
NOAEL (oral, rat, 90 days)	< 7.4 mg/kg rat OECD 408
NOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg rabbit OECD 410

Aspiration hazard: Not classified

Endocrine disrupting properties: The substance is 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*

Very toxic to aquatic life with long lasting effects.

Zinc dimethyl dithiocarbamate (CAS : 137-30-4)	
LC50 96h - Fish	0.01 mg/l <i>Lepomis macrochirus</i>
LC50 96h - Fish	1.2 mg/l <i>Lepomis macrochirus</i> [static]
EC50 48h - Crustacea	0.048 mg/l <i>Daphnia magna</i>
EC50 72h - Algae	0.0733 mg/L <i>Pseudokirchnerella subcapitata</i>
NOEC chronic Crustacea	78 µg/L <i>Daphnia magna</i> (21d)
NOEC chronic fish	101 µg/L <i>Pimephales promelas</i> (33d)

*Persistence and degradability*

Not readily biodegradable  
 Biodegradation 7% (28 days)

*Bioaccumulative potential*

Low bioaccumulation potential  
 Log Pow – 1.65 (20°C)

*Mobility in soil*

Log Koc: 2.5-4

*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*

The substance is 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 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, ADN, IMDG, IATA, RID	UN2811
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA, RID	TOXIC SOLID, ORGANIC, N.O.S. (Zinc dimethyl dithiocarbamate)
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA, RID	6.1
Packing group	
DOT, ADR, ADN, IMDG, IATA, RID	II
Environmental hazards	Marine Pollutant
Special precautions for user	Not information available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation"	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)	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)	Listed
TLV (Threshold Limit Value established by ACGIH)	Not listed
NIOSH-Ca (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%)	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