

Sovchem® TMTM

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer	Emergency Contact
Sovereign Chemical Company	Chemtrec: 1-800-424-9300 (continental USA)
4040 Embassy Parkway, Suite 190	(1)703-527-3887 (outside continental USA)
Akron, OH 44333	Company to the transfer of the
Trade Name(s): Sovchem® TMTM Oiled Powder,	Synonyms: TMTM or Thiodicarbonic diamide
Powder, Granule	tetramethyl
Chemical Name: Tetramethyl thiuram	CAS Number: 97-74-5
monosulfide	
Relevant identified uses of the substance or	Application of the substance/the preparation:
mixture and uses advised against: No further	Chemicals for synthesis.
relevant information available.	
Issued By: Sovereign Chemical Company	SDS Number: 1853
	Date of Issue: November 20, 2013
According to 1907/2006/EC (REACH),	Revision Number: 3 (Supersedes: June 6, 2011)
1272/2008/EC (CLP), and GHS	Change(s): Update to GHS requirement.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H411



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects



GHS07

Acute Tox.4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful

R22 Harmful if swallowed.



Xi; Sensitizing

R43 May cause sensitization by skin contact.



N; Dangerous for the environment.

R51/53 Toxic to aquatic organisms; May cause long-term adverse effects in the aquatic

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Information concerning particular hazards for human and environment: Not applicable.



2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)





GHS07 GHS09 Signal word: Warning

Hazard-determining components of labeling: tetramethylthiuram monosulphide

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation:

H411.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves and eye protection.

P264 Wash thoroughly after handling.

P261 Avoid breathing dust.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Additional information: Contains tetramethylthiuram monosulphide. May produce an allergic reaction.

Hazard description WHMIS-symbols



D2B - Toxic material causing other toxic effects.

NFPA ratings (scale 0-4)



Health = 2Fire = 0Reactivity = 0

HMIS ratings (scale 0-4)



Health = 2 Fire = 0 Reactivity = 0

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HMIS Long Term Health Hazard Substances: Substance is not listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.



<5.0%

COMPOSITION/INFORMATION ON INGREDIENTS 3.

3.1 Substances

CAS No. Description

97-74-5 tetramethylthiuram monosulphide

Identification number(s) EC number: 202-605-7 Index number: 006-080-00-3 Dangerous components

CAS: 8042-47-5

White Mineral Oil EINECS: 232-455-8 **×** Xn R65

♦ Asp. Tox. 1, H304

FIRST AID MEASURES

4.1 Description of first aid measures

General information

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders

Coughing

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.

If necessary oxygen respiration treatment.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. For safety reasons, unsuitable extinguishing agents: None.

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5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.



5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Thorough dedusting.

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection

Keep respiratory protective device available.

Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.

Avoid storage near extreme heat, ignition sources or open flame.

Protect from humidity and water.

Information about storage in one common storage facility

Store away from oxidizing agents.

Store away from foodstuffs.

Do not store together with acids.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles.

Store receptacle in a well-ventilated area.

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7.3 Specific end use(s) No further relevant information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs: No further relevant information available. PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Avoid alcohol consumption while working with the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

Respiratory protection: Suitable respiratory protective device recommended.

Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

Neoprene gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection



Safety glasses with side shields or face shield strongly suggested.

Body protection: Impervious protective clothing.

Limitation and supervision of exposure into the environment: No further relevant information available.

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Risk management measures

See Section 7 for additional information.

No further relevant information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties



General Information

deficial information	
Appearance	Change in Condition
Form: Granulate	Melting Point/Melting Range: Undetermined.
Powder.	Boiling Point/Boiling Range: Undetermined.
Color: Yellow	
Odor: Characteristic.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH Value: Not applicable.
Vapor pressure: Not applicable.	Flash point: Not applicable
Density at 20 °C: 1.38 g/cm ³ .	Flammability (solid, gaseous): Product is not
	flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an
	explosion hazard.
Viscosity	Explosion limits
Dynamic: Not applicable.	Lower: Not determined.
Kinematic: Not applicable.	Upper: Not determined.
Solvent content:	Solids content: Not determined.
Organic solvents: Not determined.	

9.2 Other information: No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

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Toxic fumes may be released if heated above the decomposition point.

Reacts with strong oxidizing agents.

Reacts with strong acids.

10.4 Conditions to avoid

Keep away from heat and direct sunlight.

Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products

Nitrogen oxides

Sulphur oxides (SOx)

Carbon monoxide and carbon dioxide

Hydrogen cyanide (prussic acid)



11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Primary irritant effect

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Slight irritant effect on eyes.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

Danger through skin adsorption.

Harmful

Toxic and/or corrosive effects may be delayed up to 24 hours.

Sensitization: Sensitization possible by inhalation and/or dermal contact.

Repeated dose toxicity

Repeated exposures may result in skin and/or respiratory sensitivity.

May cause damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity: Toxic for aquatic organisms

- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Ecotoxical effects
Remark: Toxic for fish

Additional ecological information

General notes

This statement was deduced from products with a similar structure or composition.

The product may not be released into the environment without control.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also, poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.



DISPOSAL CONSIDERATIONS 13.

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous. Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

TRANSPORTATION INFORMATION

14.1 UN-Number

DOT N/A UN3077 ADR, IMDG, IATA

14.2 UN proper shipping name:

DOT N/A

ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,

N.O.S (tetramethylthiuram monosulphide)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. **IMDG**

(tetramethylthiuram monosulphide), MARINE POLLUTANT

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IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S.

(tetramethylthiuram monosulphide)

14.3 Transport hazard class(es)

DOT, Class N/A

ADR



Class 9 (M7) Miscellaneous dangerous substances and articles.

Label

IMDG, IATA



Class 9 Miscellaneous dangerous substances and articles.

Label 9

14.4 Packing group

DOT N/A ADR, IMDG, IATA Ш



14.5 Environmental hazards Product contains environmentally hazardous substances:

tetramethylthiuram monosulphide

Marine pollutant Yes

Special Marking (ADR)
Special Marking (IATA)
Symbol (fish and tree)
Symbol (fish and tree)

14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles

Danger code (Kemler) 90 EMS Number F-A, S-F.

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

Transport/Additional information

ADR

Transport category 3
Tunnel restriction code E

UN "Model Regulation" UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (tetramethylthiuram monosulphide), 9, III

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

Substance is not listed.		
Substance is not listed.		
Substance is listed.		
Proposition 65 (California)		
Substance is not listed.		
Carcinogenic Categories		
Substance is not listed.		
Substance is listed.		
Substance is not listed.		
Substance is not listed.		

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

FDA RegulationsFood contact surface component: 21 CFR 177.2600 (b) Accelerators (total not to exceed

1.5 percent by weight of rubber product.)

Adhesives component, indirect food additive: 21 CFR 175.105.

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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.

Relevant phrases

H304 May be fatal if swallowed and enters airways.
R65 Harmful: may cause lung damage if swallowed.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

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