Safety Data Sheet

Sovchem® ETU

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® ETU Oiled Powder	Chemical Name: 1,3-Ethylene thiourea
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)	:	 GHS07,  GHS08
Signal Word	:	Danger
Hazard statements (CLP)	:	H302 - Harmful if swallowed, Category 4 H360 – May damage fertility of the unborn child, Category 1B
Precautionary statements (CLP)	:	P264 – Wash skin 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 approved waste disposal plant P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood P281 - Use personal protective equipment as required P308 + P313 - IF exposed or concerned: Get medical advice/attention P405 - Store locked up
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
1,3-Ethylene thiourea	96-45-7	202-506-9	≥ 97	H302 - Harmful if swallowed, Category 4 H360 – May damage fertility of the unborn child, Category 1B

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: IF SWALLOWED: Rinse mouth. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

General: Harmful if swallowed. May damage the unborn child.

Indication of any immediate medical attention and special treatment needed

General: 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: Powder, water spray, foam, carbon dioxide.
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, and nitrogen 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. Prevent fire-fighting water from entering surface water or groundwater. Contain escaping vapors with water.

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:	Sweep spilled substance into sealable containers; if appropriate, moisten first to prevent dusting. Carefully collect remainder and then remove to safe place. Personal protection: self-contained breathing apparatus.

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. 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
1,3-Ethylene thiourea (CAS #: 96-45-7)	-	-	TWA: 0.1 mg/m^3 STEL: 0.6 mg/m^3	Skin	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
1,3-Ethylene thiourea (CAS #: 96-45-7)	TWA: 0.1 mg/m^3	-	-	-	-

Derived No Effect Level (DNEL): Workers:
Inhalation - Systemic effects - Long term exposure: 0.07mg/m^3
Dermal - Systemic effects - Long term exposure: 1.7 mg/kg bw/day

Predicted No Effect Concentration (PNEL):

Fresh Water	0.32 mg/L
Marine Water	0.032 mg/L
Intermittent Release to Water	0.264 mg/L
Sediment (freshwater)	1.57 mg/kg sediment dw
Sediment (marine water)	0.157 mg/kg sediment dw
Soil	0.126 mg/kg soil dw
Impact on Sewage Treatment	10 mg/L
Secondary Poisoning	1.13 mg/kg food

Exposure controls

Engineering controls:	Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Remove all sources of ignition
Personal protective equipment:	Safety goggles or eye protection in combination with breathing protection. Glove material: Nitrile rubber; Glove thickness: 0.11 mm; Break through time: > 480 min.
Respiratory protection:	Appropriate respiratory protection should be worn when applied engineering controls are not adequate to protect against inhalation exposure. Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances
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: 199°C
Color: White	Boiling Point/Range: 347°C
Odor: Odorless to weakly aromatic; slight odor	Odor threshold: Not determined
pH: Not determined	Flash point: Not applicable
Vapor Pressure: 0.00027 Pa (25°C)	Flammability: Not flammable
Density at 20 °C: 0.4512 g/cm^3	Ignition temperature: Not applicable
Relative density: Not applicable	Decomposition temperature: ca.240°C
Solubility: Water: 27.4 g/L @ 20°C	Partition coefficient (n-octanol/water): -0.67 (20°C)

Oxidizing properties: Not determined	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 under normal conditions.

Possibility of hazardous reactions: None under normal processing. Hazardous polymerization does not occur.

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

Incompatible materials: Strong oxidizing agents, strong acids.

Hazardous decomposition products: Carbon oxides, sulfur oxides, nitrogen oxides, ammonia, hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Harmful if swallowed.

1,3-Ethylene thiourea (CAS #: 96-45-7)	
LD50 oral rat	940 mg/kg
LD50 dermal rabbit	> 2,000 mg.kg OECD 402

Skin corrosion/irritation: Non-irritating to the skin, rabbit.

Serious eye damage: No eye irritation, rabbit.

Sensitization: Not sensitizing, mouse.

Germ cell mutagenicity: Not classified.

Carcinogenicity: IARC Group 3 - Not classifiable

Reproductive toxicity: May damage the unborn child.

STOT single exposure: The substance can be absorbed into the body by inhalation and through the skin.

STOT multiple exposure:	The substance may have effects on the thyroid and liver, resulting in impaired functions. Animal tests show that this substance possibly causes malformations in human babies.
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.

1,3-Ethylene thiourea (CAS #: 96-45-7)	
LC50 96h - fish	7500 mg/l Poecilia reticulata
EC50 48h - Crustacea	21.6 – 32.2 mg/l Daphnia magna [Static]
EC50 72h - Algae	> 100 mg/l Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC- Crustacea	3.2 mg/l Daphnia magna Duration

Persistence and degradability
Not readily biodegradable.

Bioaccumulative potential
Log Kow = -0.67.
Tests indicate the potential for bio-accumulate in aquatic organisms is low.

Mobility in soil
Log Koc = 1.11.

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 other quantitative data concerning the ecological effects of this product. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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	Non-marine polluant
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)	Listed
TSCA (Toxic Substances Control Act)	Listed
Proposition 65 (California)	
Chemicals known to cause cancer	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	Listed
Carcinogenic Categories	
IARC (International Agency for Research on Cancer)	Listed

TLV (Threshold Limit Value established by ACGIH)	Not listed
NIOSH (National Institute for Occupational Safety and Health)	Listed
OSHA (Occupational Safety & Health Administration)	Not listed
Canada	
Canadian Domestic Substances List (DSL)	Listed
Canadian Ingredient Disclosure list (limit 0.1%)	Listed
Canadian Ingredient Disclosure list (limit 1%)	Not listed
REACH	
REACH Candidate List	Not listed
REACH XIV List	Not listed

Chemical safety assessment: No 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