

Safety Data Sheet

according to 29 CFR 1910.1200(g)

Conostan Single-Element Standard, Mercury 1000 ppm (Hg)

Revision date: 12/05/2025

Product code: AC18.05855

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2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Reproductive toxicity: Repr. 1B

Aspiration hazard: Asp. Tox. 1

Label elements

29 CFR Part 1910.1200

Signal word:

Danger

Pictograms:



Hazard statements

May be fatal if swallowed and enters airways

May damage fertility or the unborn child

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing and eye protection/face protection.

If swallowed: Immediately call a poison center/doctor.

Do NOT induce vomiting.

If exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container to an appropriate recycling or disposal facility.

Hazards not otherwise classified

No data available

3. Composition/information on ingredients

Mixtures

Relevant ingredients

| CAS No | Components | Quantity |
|-----------|------------------------------|----------|
| 8042-47-5 | White mineral oil, petroleum | 99.9 % |
| 7439-97-6 | mercury | 0.1 % |

Further Information

No data available

4. First-aid measures

Description of first aid measures

General information

Self-protection of the first aider

After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

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After contact with skin

Wash immediately with: Water, Soap
 Take off immediately all contaminated clothing and wash it before reuse.
 Call a physician immediately.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
 Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth.
 Observe risk of aspiration if vomiting occurs.
 Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Gastrointestinal complaints
 Pneumonia
 Vapors may cause drowsiness and dizziness.
 Dizziness
 Depression of central nervous system
 Headache

Indication of any immediate medical attention and special treatment needed

Aspiration hazard

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam
 Carbon dioxide (CO₂)
 Extinguishing powder
 Water

Unsuitable extinguishing media

No data available

Specific hazards arising from the chemical

Combustible liquids
 Hazardous combustion products
 In case of fire may be liberated:
 Carbon dioxide (CO₂)
 Carbon monoxide
 Metal oxide smoke, toxic
 In case of warming:
 Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
 Use water spray jet to protect personnel and to cool endangered containers.
 Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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General advice

In case of warming:
 Vapors are heavier than air, spread along floors and form explosive mixtures with air.
 Take precautionary measures against static discharges.

For non-emergency personnel

Provide adequate ventilation.
 Use personal protection equipment.
 Avoid contact with skin, eyes and clothes.
 Remove persons to safety.
 Emergency procedures
 Consult an expert
 Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For containment

Cover drains.
 Prevent spread over a wide area (e.g. by containment or oil barriers).
 Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
 Collect in closed and suitable containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Wear breathing apparatus if exposed to vapors/dusts/aerosols.

Reference to other sections

Safe handling: see section 7
 Personal protection equipment (PPE): see section 8
 Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care.
 When using do not eat, drink, smoke, sniff. Keep container tightly closed.
 Use personal protection equipment.
 Do not breathe vapor or spray.
 Use extractor hood (laboratory).
 Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Take precautionary measures against static discharges.
 In case of warming:
 Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.
 The choice of body protection depends on the concentration and quantity of hazardous substances. The

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chemical resistance of the protective agents should be clarified with their suppliers.

Further information on handling

- Take off immediately all contaminated clothing and wash it before reuse.
- Draw up and observe skin protection programme.
- Wash hands and face before breaks and after work and take a shower if necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

- Keep container tightly closed.
- Store in a well-ventilated place.

Hints on joint storage

National regulations

Further information on storage conditions

Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

Exposure limits

| CAS No | Substance | ppm | mg/m ³ | Category | Origin |
|-----------|---|-----|-------------------|--------------------|------------|
| 7439-97-6 | Mercury (vapor) (as Hg) | - | C 0.1 | Ceiling | REL |
| 7439-97-6 | Mercury elemental | - | 0.025 | TWA (8 h) | ACGIH-2025 |
| 7439-97-6 | mercury | - | - | as low as possible | REL |
| - | Mineral oil, excluding metal working fluids (inhalable fraction); Pure, highly and severely refined | - | 5 | TWA (8 h) | ACGIH-2025 |
| 8012-95-1 | Oil mist (mineral) | - | 5 | TWA (8 h) | REL |
| | | - | 10 | STEL (15 min) | REL |
| 8012-95-1 | Oil mist, mineral | - | 5 | TWA (8 h) | REL |

Biological Exposure Indices (BEI-ACGIH)

| CAS No | Substance | Determinant | Value | Test material | Sampling time |
|-----------|--------------------|----------------------|---------|---------------|----------------|
| 7439-97-6 | MERCURY, ELEMENTAL | Mercury (creatinine) | 20 µg/g | urine | Prior to shift |

Additional advice on limit values

Observe in addition any national regulations!

Exposure controls

Appropriate engineering controls

- Technical measures and the application of suitable work processes have priority over personal protection equipment.
- If handled uncovered, arrangements with local exhaust ventilation have to be used.
- Use extractor hood (laboratory).

Individual protection measures, such as personal protective equipment

Eye/face protection

- goggles
- Face protection umbrella

Hand protection

Tested protective gloves must be worn

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The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Take off immediately all contaminated clothing and wash it before reuse .

Wash hands and face before breaks and after work and take a shower if necessary .

Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | | |
|---|--------------------|---------------------------|
| Physical state: | Liquid | |
| Color: | colorless, clear | |
| Odor: | like: Hydrocarbons | |
| Odour threshold: | No data available | |
| Melting point/freezing point: | | No data available |
| Boiling point or initial boiling point and boiling range: | | 218-800 (424.4-1472°F) °C |
| Flammability: | | No data available |
| Lower explosion limits: | | No data available |
| Upper explosion limits: | | No data available |
| Flash point: | | No data available |
| Auto-ignition temperature: | | No data available |
| Decomposition temperature: | | No data available |
| pH-Value: | | No data available |
| Viscosity / kinematic: | | No data available |
| Water solubility: | | No data available |
| Solubility in other solvents | | |
| No data available | | |
| Dissolution rate: | | No data available |
| Partition coefficient n-octanol/water: | | No data available |
| Dispersion stability: | | No data available |
| Vapor pressure: | | No data available |
| Vapor pressure: | | No data available |
| Density: | | No data available |
| Relative density: | | No data available |
| Bulk density: | | No data available |
| Relative vapour density: | | No data available |
| Particle characteristics: | | No data available |

Other information

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Information with regard to physical hazard classes

Explosive properties

In case of warming:

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Sustained combustibility:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information

No data available

10. Stability and reactivity

Reactivity

In case of warming:

Vapours may form explosive mixtures with air.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Oxidising agent

Conditions to avoid

Heat

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

No data available

Hazardous decomposition products

in case of fire, see:

SECTION 5: Fire fighting measures

Further information

No data available

11. Toxicological information

Route(s) of Entry

No data available

Information on toxicological effects

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Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg

| CAS No | Components | | | | |
|-----------|------------------------------|-------------------|---------|---------------------|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 8042-47-5 | White mineral oil, petroleum | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1987) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Study report (1987) | OECD Guideline 402 |
| 7439-97-6 | mercury | | | | |
| | inhalation vapour | ATE 0,5 mg/l | | | |
| | inhalation dust/mist | ATE 0,05 mg/l | | | |

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility or the unborn child (mercury)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Mercury (CAS 7439-97-6) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

Aspiration hazard

May be fatal if swallowed and enters airways

Specific effects in experiment on an animal

No data available

Additional information on tests

There is no reliable information on carcinogenicity, mutagenicity, target organ toxicity or developmental toxicity.

Practical experience

No data available

Information on other hazards
Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Other information

No data available

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Further information

Gastrointestinal complaints
 Pneumonia
 Vapors may cause drowsiness and dizziness.
 Dizziness
 Depression of central nervous system
 Headache
 Allergic reactions

12. Ecological information

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Send to a physico-chemical treatment facility under observation of official regulations.
 Do not allow to enter into surface water or drains.
 Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

14. Transport information

U.S. DOT 49 CFR 172.101

Proper shipping name:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number or ID number:

No dangerous good in sense of this transport regulation.

UN proper shipping name:

No dangerous good in sense of this transport regulation.

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:

No dangerous good in sense of this transport regulation.

UN proper shipping name:

No dangerous good in sense of this transport regulation.

Transport hazard class(es):

No dangerous good in sense of this transport regulation.

Packing group:

No dangerous good in sense of this transport regulation.

Special precautions for user

No dangerous good in sense of this transport regulation.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No dangerous good in sense of this transport regulation.

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 304 CERCLA:

Mercury (7439-97-6): Reportable quantity = 1 (0.454) lbs. (kg)

SARA Section 311/312 Hazards:

Mercury (7439-97-6): Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA Section 313 Toxic release inventory:

Mercury (7439-97-6): De minimis limit = None, Reportable threshold = 10 lbs.

Clean Air Act Section 112(b):

Mercury (7439-97-6)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Mercury and mercury compounds (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Changes

Revision date: 12/05/2025

Revision No: 1,01

This data sheet contains changes from the previous version in section(s): 1,2,5,9,11.

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)