SECTION 1: Identification

1.1. Product identifier
Product form: Mixture
Trade name: AD Silver Jewelry Cleaner

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Intended for general public
Use of the substance/mixture: Jewelry cleaner

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Manufacturer:
Connoisseurs Products Corporation
17 Presidential Way
Woburn, MA 01801-1040
http://www.connoisseurs.com
info@connoisseurs.com

1.4. Emergency telephone number
Emergency number
Chemtrec US: 1 (800) 424-9300 (24 hrs)
Chemtrec Outside US: 1 (703) 527-3887 (24 hrs)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification according to OSHA 29CFR 1910.1200
Serious eye damage/eye irritation, Category 2A H319
Carcinogenicity, Category 2 H351
Reproductive toxicity, Category 2 H361
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements
Labeling according to OSHA
Hazard pictograms (CLP):
GHS07
GHS08

Signal word (CLP): Warning
Hazardous ingredients: Thiourea
Hazard statements (CLP):
H319 - Causes serious eye irritation.
H351 - Suspected of causing cancer.
H361 - Suspected of damaging fertility or the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP):
P102 - Keep out of reach of children.
P201 - Obtain special instructions before use.
P280 - Wear eye protection, protective gloves, protective clothing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards not contributing to the classification
No additional information available

SECTION 3: Composition/information on ingredients
3.1. Substances
Not applicable
3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
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</thead>
<tbody>
<tr>
<td>Thiourea</td>
<td>(CAS-No.) 62-56-6 (EC-No.) 200-543-5 (EC Index-No.) 612-082-00-0</td>
<td>5-10%</td>
<td>Acute Tox. 4 (Oral), H302 Carc. 2, H351 Repr. 2, H361d Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>Sulfuric acid</td>
<td>(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8</td>
<td>1-4%</td>
<td>Skin Corr. 1A, H314</td>
</tr>
<tr>
<td>C12-15 pareth-9</td>
<td>(CAS-No.) 68131-39-5 (EC-No.) 500-195-7</td>
<td>1-3%</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412</td>
</tr>
<tr>
<td>Undeceth-7</td>
<td>(CAS-No.) 34398-01-1 (EC-No.) 500-084-3</td>
<td>1-3%</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures
4.1. Description of first aid measures

First-aid measures general
Never give anything by mouth to an unconscious person. Suspected of causing cancer. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation
Allow victim to breathe fresh air. Allow the victim to rest. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact
Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice if skin irritation persists.

First-aid measures after eye contact
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. Do not induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation
May be harmful if inhaled.

Symptoms/effects after skin contact
If skin irritation or rash occurs: Get medical advice/attention.

Symptoms/effects after eye contact
Causes serious eye irritation.

Symptoms/effects after ingestion
May be harmful if swallowed.

Chronic symptoms
Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media

Unsuitable extinguishing media
Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard
Combustion may produce irritating fumes. minimal fire hazard.

Explosion hazard
None known.

Hazardous decomposition products in case of fire

5.3. Advice for firefighters

Firefighting instructions
Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protective equipment for firefighters
Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures:
Avoid contact with skin and eyes.

6.1.1. For non-emergency personnel

Emergency procedures:
Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment:
Equip cleanup crew with proper protection.

Emergency procedures:
Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up:
Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:
Provide good ventilation in process area to prevent formation of vapour. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Hygiene measures:
Wash hands thoroughly after handling. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:
Keep only in the original container in a cool, well ventilated place away from:
Incompatible materials. Keep container closed when not in use.

Incompatible materials:
Strong acids, bases.

7.3. Specific end use(s)

Refer to section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA - ACGIH</th>
<th>USA - OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (7664-93-9)</td>
<td>0.2 mg/m³ ACGIH TWA</td>
<td>1.0 mg/m³ OSHA TWA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA - ACGIH</th>
<th>USA - OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thiourea (62-56-6)</td>
<td>10 mg/m³ (inhaleable fraction) ACGIH TWA</td>
<td>15 mg/m³ (total dust) OSHA TWA</td>
</tr>
<tr>
<td></td>
<td>3 mg/m³ (respirable fraction)</td>
<td>5 mg/m³ (respirable fraction)</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Appropriate engineering controls:
Provide adequate ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Impervious gloves e.g. PVC, nitrile rubber, butyl rubber

Eye protection:
Chemical goggles or safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of inadequate ventilation wear respiratory protection. Use a properly fitted, air-purifying or air-fed respirator if necessary.

Other information:
Do not eat, drink or smoke during use.
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Colourless.
Odour: Mint.
Odour threshold: No data available
pH: 1.25
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: ≈ 100 °C
Flash point: >93 °C (>200°F)
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Not applicable
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: 1.03 g/cm³
Density: 1.03 g/ml
Solubility: Soluble in water
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
None under normal conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials
Powdered metals.

10.6. Hazardous decomposition products
Combustion may produce irritating fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified
Additional information: Based on available data, the classification criteria are not met

C12-15 pareth-9 (68131-39-5)
LD50 oral rat: 1600 mg/kg
LD50 dermal rabbit: 2500 mg/kg

Thiourea (62-56-6)
LD50 oral rat: 1750 mg/kg
LD50 dermal rat: > 6810 mg/kg
LC50 inhalation rat (mg/l): > 0.9 mg/l/4h

Skin corrosion/irritation: Not classified. pH: 1.25
Additional information: Based on available data, the classification criteria are not met
Serious eye damage/irritation: Causes serious eye irritation. pH: 1.25

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Suspected of causing cancer.

Sulfuric acid (mist) (7664-93-9)
IARC group 1 - Carcinogenic to humans

Thiourea (62-56-6)
IARC group 3 - Not classifiable

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT-single exposure: Not classified

Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

Thiourea (62-56-6)
LC50 fish 1 > 600 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 fish 2 10000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)
EC50 Daphnia 1 35 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 72h algae (1) 3.8 - 10 mg/l (Species: Desmodesmus subspicatus)
EC50 96h algae (1) 6.8 mg/l (Species: Desmodesmus subspicatus)

12.2. Persistence and degradability
AD Silver Jewelry Cleaner
Persistence and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential
AD Silver Jewelry Cleaner
Bioaccumulative potential: Not established.

Thiourea (62-56-6)
Log Pow -0.92 (at 20 °C)

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Additional information: Avoid release to the environment.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information
In accordance with ADR / DOT / IMDG
ADR | IMDG | DOT
---|---|---
### 14.1. UN number
3264 | 3264 | 3264

### 14.2. UN proper shipping name
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

### Transport document description
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric Acid), 8, III, LTD. QTY.
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric Acid), 8, III, LTD. QTY.
UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuric Acid), 8, III, LTD. QTY.

### 14.3. Transport hazard class(es)
8
8
8

### 14.4. Packing group
III
III
III

### 14.5. Environmental hazards
Dangerous for the environment : No
Dangerous for the environment : No
Dangerous for the environment : No
Marine pollutant : No

No supplementary information available

### 14.6. Special precautions for user
No additional information available

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. US-Regulations

**SARA REPORTING REQUIREMENTS:** This product is subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: CAS# 7664-93-9 Sulfuric Acid SARA 302 TPQ 1,000 Lbs (454 Kg), SARA 304 RQ 1,000 Lbs (454 Kg); CAS# 62-56-6 Thiourea SARA 313.

**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

- **ACUTE HEALTH:** YES
- **CHRONIC HEALTH:** YES
- **FIRE:** NO
- **REACTIVITY:** YES

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** CAS# 62-56-6 Thiourea RQ. 10 Lbs (4.54 Kg), CAS# 7664-93-9 Sulfuric Acid RQ. 1,000 Lbs (454 Kg).

##### 15.1.2. State regulations

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** This product contains ingredients that are on the California Proposition 65 lists: Thiourea

**WARNING!** This product contains ingredients that are known to the State of California to cause cancer, birth defects, or other reproductive harm.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

**Abbreviations and acronyms:**

- **CLP:** Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- **PBT:** Persistent Bioaccumulative Toxic
- **REACH:** Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
- **STEL:** Short-Term Exposure Limit
- **TWA:** Time Weighted Average
- **vPvB:** Very Persistent and Very Bioaccumulative
<table>
<thead>
<tr>
<th><strong>Full text of H- and EUH-statements:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Oral)</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
</tr>
<tr>
<td>Carc. 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
</tr>
<tr>
<td>Repr. 2</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
</tr>
<tr>
<td>H302</td>
</tr>
<tr>
<td>H314</td>
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</tr>
<tr>
<td>H400</td>
</tr>
<tr>
<td>H411</td>
</tr>
<tr>
<td>H412</td>
</tr>
<tr>
<td><strong>Classification and procedure used to derive the classification for mixtures according to regulations:</strong></td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
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<tr>
<td>Carc. 2</td>
</tr>
<tr>
<td>Repr. 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
</tr>
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</table>

Sources of Key data: REGULATION (US): 29CFR, 49CFR, 40CFR
by reference: UN Model GHS- ST/SG/AC.10/30/Rev.4