1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Amitriptyline hydrochloride
Product Number: A8404
Brand: Sigma
Company: Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone: +18003255832
Fax: +18003255052
Emergency Phone #: (314) 778-5555

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards
Target Organ Effect, Highly toxic by Inhalation, Toxic by ingestion, Toxic by skin absorption, Irritant, Teratogen
Target Organs
Central nervous system, Heart
GHS Label elements, Including precautionary statements
Pictogram
Signal word: Danger
Hazard statement(s)
H301 + H311: Toxic if swallowed or in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H334: May cause allergy or asthama symptoms or breathing difficulties if inhaled.
H335: May cause respiratory or asthmatic symptoms or breathing difficulties if inhaled.
H360: Suspected of damaging the fertility or the unborn child.
Precautionary statement(s)
P260: Do not breathe dust/vapours./mists.
P261: Do not get in eyes.
P264: Wear protective gloves and protective clothing.
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: If swallowed: Call a POISON CENTER or doctor/physician.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: C21H25ClN2S
Molar/arter Weight: 313.86 g/mol
CAS-No.: EC-No.: Index-No.: Concentration
444-86-8: -

4. FIRST AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If Inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self-contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear respiratory protection. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up
Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventative fire protection.
Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C
Keep in a dry place.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point</td>
<td>198 - 206 °C (398 - 392 °F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
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<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- Stable under recommended storage conditions.
- Conditions to avoid: No data available
- Material to avoid: Strong oxidizing agents
- Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

11. TOXICOLOGICAL INFORMATION

- Acute toxicity: LD50 Oral - rat - 240 mg/kg

Remarks:
- Inhalation: No data available
- Skin corrosion/irritation: No data available
- Serious eye damage/eye irritation: No data available
- Respiratory or skin sensitization: No data available
- May cause allergic respiratory and skin reactions
- Germ cell mutagenicity: No data available

Reproductive toxicity:
- May cause congenital malformation in the fetus.

Suspected human reproductive toxicant

Specific target organ toxicity - single exposure (GHS):
- Inhalation: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (GHS): No data available

Aspiration hazard: No data available

Potential health effects:
- Inhalation: May be fatal if inhaled. Causes respiratory tract irritation.
- Ingestion: Toxic if swallowed.
- Skin: Toxic if absorbed through skin. Causes skin irritation.
- Eyes: Causes eye irritation.

Additional Information:
- RTECS: HO9440000

12. ECOLOGICAL INFORMATION

- Toxicity: No data available
- Permanence and degradability: No data available
- Bioaccumulative potential: No data available
- Mobility in soil: No data available
13. DISPOSAL CONSIDERATIONS

**Product**
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dispose of material with a combustible solvent and burn in a chemical incinerator equipped with a scrubber and scrubber.

**Contaminated packaging**
Dispose of as unused product.

14. TRANSPORT INFORMATION

**DOT (US)**
UN-Number: 2811  Class: 6.1  Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (Amitriptyline hydrochloride)
Marine pollutant: No
Poison Inhalation Hazard: No

**IMDG**
UN-Number: 2811  Class: 6.1  Packing group: III
Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Amitriptyline hydrochloride)
Marine pollutant: No

**IATA**
UN-Number: 2811  Class: 6.1  Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (Amitriptyline hydrochloride)

15. REGULATORY INFORMATION

**OSHA Hazards**
Target Organ Effect, Highly toxic by inhalation, Toxic by ingestion, Toxic by skin absorption, Irritant, Teratogen

**DSL Status**
All components of this product are on the Canadian DSL list.

**SARA 302 Components**
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (DA Min/Max) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
Amitriptyline hydrochloride
CAS-No.: 549-19-9
Revision Date:

**New Jersey Right To Know Components**
Amitriptyline hydrochloride
CAS-No.: 549-19-9
Revision Date:

**California Prop. 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.