



**Silver Fern Chemical, Inc.  
Safety Data Sheet  
Denatonium Benzoate**

**Revision Date:  
15 July, 2026**

**Section 1. Identification**

**Product Identity** Denatonium Benzoate  
**Other means of identification** N,N-diethyl-N-[2-(2,6 dimethylphenylamino) 2-oxoethyl]-benzylammonium benzoate

**Relevant identified uses of the substance or mixture and uses advised against**

Denaturants, Aversion agent.

**Details of the supplier of the safety data sheet**

**Company Name** Silver Fern Chemical, Inc.  
121 W. De La Guerra Street, Suite B  
Santa Barbara, CA 93101 USA  
info@silverfernchemical.com  
Website - www.silverfernchemical.com

**24-hour Emergency Telephone No.** **Emergency telephone number:**  
**Infotrac: 1-800-535-5053**  
**Outside USA & Canada +1-352-323-3500**

**Customer Service:** Customer Service: 1-866-282-3384

**Section 2. Hazard(s) identification**

**Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)**

Acute toxicity(oral), category 4; H302 Harmful if swallowed.

Skin corrosion/irritation category 2; H315 Causes skin irritation.



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Serious eye damage / eye irritation, category 2A; H319

Causes serious eye irritation.

Aquatic toxicity (chronic), category 3; H412

Harmful to aquatic life with long lasting effects.

**Label elements**



**Warning**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

**[Prevention]**

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

**[Response]**

P301+312 IF SWALLOWED: Call a POISON CENTER, doctor or physician if you feel unwell.

P330 Rinse mouth.

**[Storage]**

No GHS storage statements

**[Disposal]**

P501 Dispose of contents or container in accordance with local and national regulations.

**Other hazards**



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This product contains no PBT/vPvB/vPvM chemicals.  
This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

### **Section 3. Composition/information on ingredients**

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

| <b>Ingredient/Chemical Designations</b>                          | <b>Weight %</b> | <b>GHS Classification</b>                                                                                                                                                                                                                    | <b>Notes</b>      |
|------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Denatonium Benzoate<br>CAS Number: 3734-33-6<br>Synonyms: Bitrex | 99.5 – 101.0    | Acute toxicity(oral), category 4; H302<br>Skin corrosion/irritation category 2; H315<br>Serious eye damage / eye irritation, category 2; H319<br>Acute toxicity(inhalation), category 4; H332<br>Aquatic toxicity (chronic), category 3;H412 | No data available |

The actual concentration or concentration range is withheld as a trade secret.

\*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

### **Section 4. First aid measures**

#### **Description of first aid measures**

**General** In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes** Rinse with plenty of clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.



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**Ingestion** If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

**Overview** No specific symptom data available.  
No chronic toxicity or long-term toxicity information available. Treat symptomatically. See section 2 for further details.

**Ingestion** Harmful if swallowed.

**Section 5. Fire-fighting measures**

**Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.  
Unsuitable extinguishing media: Do not use; water jet.

**Special hazards arising from the substance or mixture**

May be combustible at high temperature.  
Combustion products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>)

**Advice for fire-fighters**

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

**ERG Guide No.**

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**Section 6. Accidental release measures**



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**Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).  
Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

**Environmental precautions**

Do not allow spills to enter drains or waterways.

**Methods and material for containment and cleaning up**

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.  
Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations.

|                                               |
|-----------------------------------------------|
| <p><b>Section 7. Handling and storage</b></p> |
|-----------------------------------------------|

**Precautions for safe handling**

Handle containers carefully to prevent damage and spillage.  
Do not get in eyes or on skin. Do not ingest. Wear appropriate respirators and protective clothing. Keep in the original container or an approved alternative made from compatible material; keep tightly closed when not in use. Empty containers retain product residue can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See section 2 for further details. - [Prevention]

**Conditions for safe storage, including any incompatibilities**

Keep container tightly closed sealed until ready for use, and do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in original container protected from direct sunlight in a dry and well-ventilated area, away from incompatible materials (see section 10) , food and drink. Keep away from heat and sources of ignition. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
See section 2 for further details. - [Storage]



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**Specific end use(s)**  
No available information

**Section 8. Exposure controls / personal protection**

**Control parameters**

**Exposure Limits**

| CAS No.   | Ingredient          | Source | Value                |
|-----------|---------------------|--------|----------------------|
| 3734-33-6 | Denatonium Benzoate | OSHA   | No Established Limit |
|           |                     | ACGIH  | No Established Limit |
|           |                     | NIOSH  | No Established Limit |

**Exposure  
controls**

**Respiratory** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**Eyes** Protective safety glasses recommended

**Skin** Avoid skin contact. Protective gloves recommended.

**Engineering Controls** Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

**Other Work Practices** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

**Physical State** White crystalline powder or granules with a strong bitter taste.

**Color** White



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|                                                        |                                                                                                    |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Odor</b>                                            | No available information                                                                           |
| <b>Odor threshold</b>                                  | No available information                                                                           |
| <b>Melting point / freezing point</b>                  | 163 - 170 °C                                                                                       |
| <b>Initial boiling point and boiling range</b>         | No available information                                                                           |
| <b>Flammability (solid, gas)</b>                       | Not Applicable                                                                                     |
| <b>Upper/lower flammability or explosive limits</b>    | Lower Explosive Limit: No available information<br>Upper Explosive Limit: No available information |
| <b>Flash Point</b>                                     | 212 °F / 100 °C (968.9 hPa)<br>Method: ISO 2719, closed cup                                        |
| <b>Auto-ignition temperature</b>                       | No available information                                                                           |
| <b>Decomposition temperature</b>                       | No available information                                                                           |
| <b>pH</b>                                              | 6.5 ~ 7.5                                                                                          |
| <b>Viscosity (cSt)</b>                                 | No available information                                                                           |
| <b>Solubility in Water</b>                             | Partially soluble in cold water. Solubility in Water: 45 g/l                                       |
| <b>Partition coefficient n-octanol/water (Log Kow)</b> | No available information                                                                           |
| <b>Vapor pressure (Pa)</b>                             | No available information                                                                           |
| <b>Relative Density</b>                                | No available information                                                                           |
| <b>Vapor Density</b>                                   | No available information                                                                           |
| <b>Evaporation rate (Ether = 1)</b>                    | No available information                                                                           |
| <b>Oxidizing properties</b>                            | No available information                                                                           |
| <b>Explosive properties</b>                            | No available information                                                                           |

**Other information**

No other relevant information.

**Section 10. Stability and reactivity**

**Reactivity**

Hazardous Polymerization will not occur.

**Chemical stability**

Stable under normal circumstances.

**Possibility of hazardous reactions**

No available information

**Conditions to avoid**

Avoid high temperatures and contact with incompatible material. Excess heat.



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**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

No hazardous decomposition data available.

**Section 11. Toxicological information**

**Acute toxicity**

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Ingredient                        | Oral LD50,<br>mg/kg | Skin LD50,<br>mg/kg | Inhalation<br>Vapor LC50,<br>mg/L/4hr | Inhalation<br>Dust/Mist LC50,<br>mg/L/4hr | Inhalation<br>Gas LC50,<br>ppm |
|-----------------------------------|---------------------|---------------------|---------------------------------------|-------------------------------------------|--------------------------------|
| Denatonium Benzoate - (3734-33-6) | No data available.  | No data available.  | No data available.                    | No data available.                        | No data available.             |

**Carcinogen Data**

| CAS No.   | Ingredient          | Source | Value                     |
|-----------|---------------------|--------|---------------------------|
| 3734-33-6 | Denatonium Benzoate | OSHA   | Regulated Carcinogen: No; |
|           |                     | NTP    | Known: No; Suspected: No; |
|           |                     | IARC   | No                        |
|           |                     | ACGIH  | No Established Limit      |

| Classification                | Category | Hazard Description             |
|-------------------------------|----------|--------------------------------|
| Acute toxicity (oral)         | 4        | Harmful if swallowed.          |
| Acute toxicity (dermal)       | ---      | Not Applicable                 |
| Acute toxicity (inhalation)   | ---      | Not Applicable                 |
| Skin corrosion/irritation     | 2        | Causes skin irritation.        |
| Serious eye damage/irritation | 2A       | Causes serious eye irritation. |
| Respiratory sensitization     | ---      | Not Applicable                 |
| Skin sensitization            | ---      | Not Applicable                 |
| Germ cell mutagenicity        | ---      | Not Applicable                 |
| Carcinogenicity               | ---      | Not Applicable                 |
| Reproductive toxicity         | ---      | Not Applicable                 |
| STOT-single exposure          | ---      | Not Applicable                 |
| STOT-repeated exposure        | ---      | Not Applicable                 |
| Aspiration hazard             | ---      | Not Applicable                 |





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**Possible routes of entry:**

Inhalation, ingestion, skin contact, and skin absorption.

**Symptoms and effects, both acute and delayed:**

No specific symptom data available.

No chronic toxicity or long-term toxicity information available. Treat symptomatically.

**Ingestion**

Harmful if swallowed.

**Section 12. Ecological information**

**Toxicity**

Harmful to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

| Ingredient                        | 96 hr LC50 fish, mg/L | 48 hr EC50 crustacea, mg/L | ErC50 algae, mg/L  |
|-----------------------------------|-----------------------|----------------------------|--------------------|
| Denatonium Benzoate - (3734-33-6) | No data available.    | No data available.         | No data available. |

**Persistence and degradability**

There is no data available on the preparation itself.

**Bioaccumulative potential**

No available information

**Mobility in soil**

No available information

**Results of PBT and vPvB assessment**

This product contains no PBT/vPvB/vPvM chemicals.

**Other adverse effects**

No available information

**Section 13. Disposal considerations**

**Waste treatment methods**



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Observe all federal, provincial and local regulations when disposing of this substance.

### Section 14. Transport information

|                            | DOT (Domestic Surface Transportation)              | IMO / IMDG (Ocean Transportation)                  | ICAO/IATA                                          |
|----------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| UN number                  | Not Regulated                                      | Not Regulated                                      | Not Regulated                                      |
| UN proper shipping name    | Not Regulated                                      | Not Regulated                                      | Not Regulated                                      |
| Transport hazard class(es) | Class: Not Applicable<br>Sub Class: Not Applicable | Class: Not Applicable<br>Sub Class: Not Applicable | Class: Not Applicable<br>Sub Class: Not Applicable |
| Packing group              | Not Applicable                                     | Not Applicable                                     | Not Applicable                                     |

### Environmental hazards

IMDG Marine Pollutant: No;  
**Special precautions for user**

No available information

### Section 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7)

### Toxic Substance Control Act (TSCA)

| CAS Number   | Ingredient          | Toxic Substance Control Act (TSCA) | Comments | Status |
|--------------|---------------------|------------------------------------|----------|--------|
| 0003734-33-6 | Denatonium Benzoate | Yes                                |          | ACTIVE |

The following flags are used:

- Active - indicates commercial status designation of active
- E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA.



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- F - indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N - indicates a polymeric substance containing no free-radical initiator in its Inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P - indicates a commenced Premanufacture Notice (PMN) substance.
- R - indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S - indicates a substance that is identified in a final Significant New Uses Rule.
- SP - indicates a substance that is identified in a proposed Significant New Uses Rule.
- T - indicates a substance that is the subject of a final Section 4 test rule under TSCA.
- UVCB Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials
- XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
- Y1 - indicates a polymer that has a number-average molecular weight greater than 1,000 and that was exempt under the 1984 polymer exemption rule.
- Y2 - indicates a polymer that is a polyester and that was exempt under the 1984 polymer exemption rule.

**EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 Label Warning:**

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



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**New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**OSHA Process Safety Management Standard Highly Hazardous Chemicals, Toxics and Reactives:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA List of Regulated Substances under the Risk Management Plan (RMP) Program:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US EPA Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) under the Minimum Risk Exemption:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA List II or Essential Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**U.S. - DEA - Exempt Chemical Mixtures - List 1 and 2:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**US DHS Chemical Facility Anti-Terrorism Standards (CFATS):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**CERCLA Chemicals and RQs:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Section 16. Other information**



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**DISCLAIMER OF RESPONSIBILITY**

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

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**End of Document**