

**Section 1: Identification****Product Name:** UltrAmox Compounded Amoxicillin**Chemical Name/Synonyms:** Amoxicillin; 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 6-((amino(4-hydroxyphenyl)acetyl)amino)-3,3-dimethyl-7-oxo-, trihydrate; 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 6-((amino(4-hydroxyphenyl)acetyl)amino)-3,3-dimethyl-7-oxo-trihydrate, (2S-(2- $\alpha$ ,5- $\alpha$ ,6- $\beta$ (S\*)))- 2-Amino-5guanidinovaleric acid;  
Commercial name(s): UltrAmox, Amoxicillin, Compounded Amoxicillin**Company:****Veterinary Pharmaceutical Solutions**2008 North Sunrise Drive  
Saint Peter MN, 56082 United States  
507-931-8707**Restrictions on Use:** For veterinary use only. Not for human consumption.**In emergency call 911 or CHEMTREC (24hr):** 1-800-424-9300**For information about this SDS, contact phone#:** 1-877-931-8707**Section 2: Hazard(s) Identification**See <https://www.sigmaaldrich.com/safety-center/globally-harmonized.html> for a list of hazard classifications, signal words, hazard statements, pictograms, precautionary statements, and a description of hazards.**Hazard Classification:**Amoxicillin: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Respiratory sensitization  
Respiratory Sensitization (Category 1), H334  
Skin Sensitization (Category 1), H317  
Skin Irritation (Category 2), H315  
Eye Irritation (Category 2A), H319  
Specific Target Organ Toxicity – Single Exposure (Category 3, Respiratory), H335**Signal Word(s):** Danger**Hazard Statements:**H317 – May cause allergic skin reaction.  
H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H315 – Causes skin irritation.  
H319 – Causes serious eye irritation.  
H335 – May cause respiratory irritation.**Pictograms:**

**Precautionary Statements:**

P261 – Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective gloves.

P285 – In case of inadequate ventilation wear respiratory protection.

P302 + P352 – IF ON SKIN: Wash with plenty of soap and water.

P304 + P341 – IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333 + P313 – If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 – If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P363 – Wash contaminated clothing before reuse.

P501 – Dispose of contents/ container to an approved waste disposal plant.

**Description of other hazards:** N/A

Chemical Name	Synonym	CAS#	Conc.
Amoxicillin Trihydrate	Amoxicillin	61336-70-7	15-300 grams activity
Trade Secret Solubilizer 1	(N/A)	*Trade Secret	*Trade Secret
Trade Secret Solubilizer 2	(N/A)	*Trade Secret	*Trade Secret

**Comments:** \* = The composition of this ingredient is withheld as a trade secret in accordance with OSHA 29 CFR 1910.1200(i).

**Section 4: First-Aid Measures**

**General Advice:** If the exposed individual feels unwell, seek medical attention immediately. Never administer anything by mouth to an unconscious person.

**After skin contact:** Immediately remove any contaminated clothing. Rinse the affected area thoroughly with water for at least 15 minutes. If irritation persists or develops, obtain medical attention. Contaminated clothing should be washed before reuse.

**After eye contact:** Flush eyes cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do, then continue rinsing. If eye irritation persists, seek immediate medical attention.

**After inhalation:** Remove the affected individual to fresh air and allow them to rest in a position that facilitates breathing. Ensure adequate ventilation of the area. If respiratory symptoms develop or persist, seek medical attention.

**After swallowing:** Rinse mouth thoroughly with water. Do not induce vomiting unless directed by medical personnel. Seek immediate medical attention and provide information on the substance involved.

**Most Important Symptoms and Effects Both Acute and Delayed:** The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

#### Section 5: Fire-Fighting Measures

**Suitable extinguishing agents:** Use extinguishing measures appropriate to local circumstances and the surrounding environment. Suitable extinguishing agents include dry chemical powder, alcohol-resistant foam, and carbon dioxide (CO<sub>2</sub>).

**Special Hazards arising from the substance or mixture:** Thermal decomposition or combustion may produce hazardous gases and/or materials. Keep product and empty container away from heat and sources of ignition.

**Special protective equipment for firefighters:** Use self-contained breathing apparatus and protective clothing

**Additional Considerations:** Prevent firefighting runoff from entering drains, sewers, or natural water sources. Combustion of trade secret ingredients may produce carbon oxides.

#### Section 6: Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Restrict access to the affected area until cleanup is complete. Avoid direct contact with the spilled material. Do not breathe vapor, mist, or spray. Eliminate all ignition sources, including open flames, hot surfaces, and static discharge. Ensure adequate ventilation. Appropriate personal protective equipment (PPE) should be worn, including chemical-resistant gloves, protective eyewear, and fire-resistant clothing. If airborne exposure levels are excessive, use an approved respirator

**Environmental Precautions:** Prevent entry into drains, sewers, surface water, and soil to minimize environmental impact. Contain the spill using non-combustible, inert absorbent materials such as sand or clay. Do not use sawdust, cellulose-based materials, or other combustible absorbents.

**Methods and Materials for Containment and Cleanup:** For small spills, absorb with inert material and place in a suitable, labeled container for proper disposal. For large spills, dike the area to prevent further spreading. Use non-sparking tools for cleanup. Transfer collected material into sealed containers for disposal in accordance with local, state, and federal regulations. Thoroughly clean contaminated surfaces with water and detergent. Do not allow rinse water to enter drainage systems or waterways.

#### Section 7: Handling and Storage

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Use in a well-ventilated area. Avoid inhaling vapors, mist, or spray. Prevent contact with skin, eyes, and clothing. Do not eat, drink, or smoke while handling. Wash hands and exposed skin after use. Remove contaminated clothing and launder before reuse.

**Storage:** Store at Room Temperature in a cool, dry, well-ventilated area away from direct sunlight. Keep containers tightly closed. Do not store near food, beverages, or animal feed.

#### Section 8: Exposure Controls/Personal Protection

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Amoxicillin Trihydrate	Not available	Not available	Not available	Not available
Trade Secret Solubilizer	Not available	Not available	Not available	Not available

**Exposure Limits:** No established occupational exposure limits exist for this product under OSHA PEL, ACGIH TLV, or NIOSH REL.

**Engineering Controls:** Use in a well-ventilated area. If handling in an enclosed space, provide local exhaust ventilation or mechanical ventilation to maintain airborne concentrations below exposure limits. Ensure access to an eyewash station and safety shower.

**Respiratory Protection:** Not typically required under normal use conditions.

**Skin Protection:** Wear chemical-resistant gloves (e.g., nitrile, neoprene) and long-sleeved protective clothing.

**Eye Protection:** Use safety goggles or a face shield when handling large quantities or where splashing may occur.

**General Hygiene Measures:** Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke while using this product.

### Section 9: Physical and Chemical Properties

**Form:** Solid Crystalline powder

**Odor:** Undetermined

**Odor threshold:** Undetermined

**pH:** Undetermined

**Melting point/melting range:** 235°C

**Boiling point/boiling range:** Undetermined

**Flash point:** Undetermined

**Evaporation rate:** Undetermined

**Flammability:** Undetermined

**Upper/lower flammability or explosive limits:** Undetermined

**Auto ignition temperature:** Undetermined

**Danger of explosion:** Undetermined

**Vapor pressure:** Undetermined

**Vapor density:** Undetermined

**Relative density:** Undetermined

**Solubility in/Miscibility with water:** Partially soluble in cold, hot water.

### Section 10: Stability and Reactivity

**Reactivity:** This product is stable under normal handling and storage conditions.

**Chemical stability:** Stable under normal temperatures and pressures under recommended handling and storage conditions found in Section 7.

**Conditions to avoid:** Avoid excessive heat, direct sunlight, open flames, and ignition sources. Prevent prolonged exposure to elevated temperatures. The product will turn a dark red/brown and may give off an ammonia vapor.

**Incompatible materials:** Strong oxidizing agents, acids, and bases. Contact may result in hazardous decomposition or violent reactions.

**Hazardous decomposition products:** Thermal decomposition may produce carbon oxides (CO, CO<sub>2</sub>, etc.) and other toxic vapors or gases.

### Section 11: Toxicological Information

**Likely routes of exposure:** Ingestion, Inhalation, Skin

**Acute toxicity:** Acute oral toxicity Amoxicillin: (LD50: 15000mg/kg [Rat]) Trade Secret Solubilizer 1: (LD50: 5,110 mg/kg [Rat] Trade Secret Solubilizer 2: LD >2000mg/kg Rat)

LD50 Dermal: Rabbit >2000mg/kg Trade Secret Solubilizer 2

LC 50 Inhalation Trade Secret Solubilizer 2: 4.5hours > 4.96mg/L dust/mist

**Potential routes of exposure/potential health effects**

**Skin:** May cause allergic reaction with itching redness and scaling/swelling.

**Eye:** May cause allergic reaction and irritation.

**Inhalation:** May cause allergic reaction and respiratory tract irritation with sore throat sneezing and itching.

**Ingestion:** May be harmful if swallowed. May cause gastrointestinal tract irritation with sore mouth or tongue, nausea, vomiting, and diarrhea. White patches in the mouth or tongue may appear. Anaphylactic reaction (Dermatitis, hives, itching, rash, swelling). May affect behavior, urinary system, and brain.

**Carcinogenic effects:** Not available

**Mutagenic effects:** Trade Secret Solubilizer- mutagenic for mammalian somatic cells

**Reproductive toxicity:** Not available

**Sensitization:** Possible with prolonged or repeated exposures

**Target organs:** Chronic effects: May cause damage to following organs- Kidneys

Chronic Potential Health effects: May aggravate medical conditions such as hypersensitivity to this material, bleeding disorders, gastrointestinal disease, infectious mononucleosis, and impaired kidney function

**Section 12: Ecological Information (non-mandatory)**

**Ecotoxicity:** No data available

**Mobility:** No data available

**Biodegradation:**

**Trade Secret Solubilizer** – Readily biodegradable,

**Amoxicillin** – No data available

Possible hazardous short-term degradation products are not anticipated. Long-term degradation may occur under environmental conditions

**Bioaccumulation:** No data available

**Section 13: Disposal Considerations (non-mandatory)**

**Waste Treatment Methods:** Dispose of this material and its container in compliance with all applicable federal, state, and local regulations.

**Product Disposal:** Dispose of in accordance with local, state, and federal regulations.

Incineration may be required if deemed hazardous. Do not dispose of into sewage systems, storm drains, or natural waterways.

**Container Disposal:** Empty containers may contain residue and vapors. Do not cut, weld, or reuse containers. Dispose of in accordance with local regulations.

**Regulatory Considerations:** U.S. EPA RCRA Classification: Not classified as a hazardous waste under 40 CFR Part 261. Unused product should be evaluated for hazardous waste characteristics before disposal.

**Section 14: Transport Information (non-mandatory)**

Regulatory Body	Classification
U.S. DOT (49 CFR 172.101)	Not regulated as a hazardous material
IATA (Air Transport)	Not regulated as dangerous goods
IMDG (Maritime Transport)	Not regulated as dangerous goods
TDG (Canada Transport of Dangerous Goods)	Not regulated as dangerous goods

**Special Precautions for Transport:** Keep containers tightly sealed to prevent leaks. Avoid exposure to extreme temperatures and direct sunlight during transport. Store and transport in accordance with local and international regulations

#### Section 15: Regulatory Information (non-mandatory)

##### US Federal Regulations

**SARA Section 355 (extremely hazardous substances):** N/A

**SARA Section 311:** Acute Health Hazard

**SARA Section 313 (specific toxic chemical listings):** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):** N/A

**TSCA (Toxic Substances Control Act):** N/A

#### Section 16: Other Information

**SDS date of preparation/update:**

**SDS Code:** UltrAmox

**References:** Data sourced from component SDSs, regulatory databases, and supplier information.

**Special Considerations:** Major use- Medication

**SDS date of preparation/update:** Updated by Dr. Patrick Smith, Pharm D. on 04/18/2025

**For More Information:** Contact VPS at 1-877-931-8707

**Disclaimer:** This SDS is intended to provide a summary of health, safety, and environmental information as required by OSHA 29 CFR 1910.1200 and GHS regulations. The information is believed to be accurate but is provided without warranty, express or implied. Users are responsible for compliance with all applicable regulations and safe handling practices.