

# Taj Pharmaceuticals Limited

SETTING WORLD STANDARDS IN PHARMACEUTICALS CARE

#### **MATERIAL SAFETY DATA SHEET** (MSDS)

Name: Denatonium Benzoate CAS number [3734-33-6]



Material Safety Data Sheet
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Denatonium benzoate MSDS

Section 1: Chemical Product and Company Identification

Product Name: Denatonium benzoate

Catalog Codes: SLD3193

CAS#: 3734-33-6 RTECS: BO6650000

TSCA: TSCA 8(b) inventory: Denatonium benzoate

CI#: Not available. Synonym: Bitrex;

N-[2-[(2,6-Dimethylphenyl)amino]-2-oxoethyl]-N,N-diethylbenzenemethanaminium

benzoate

Chemical Formula: C28H34N2O3

Section 2: Composition and Information on Ingredients

Composition:

Name CAS #

% by Weight

Denatonium benzoate

3734-33-6

100

Toxicological Data on Ingredients: Denatonium benzoate: ORAL (LD50): Acute: 584 mg/kg [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous

in case of skin contact (irritant).

Potential Chronic Health Effects:

Very hazardous in case of ingestion.

Hazardous in case of eye contact (irritant), of inhalation.

Slightly hazardous in case of skin contact (irritant).

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

The substance is toxic to lungs, mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs demage.

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Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes.

keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin

with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin.

Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible

indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen

tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth

resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available. Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2...).

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by

spreading water on the contaminated surface and dispose of according to local and regional authority

requirements.

Large Spill:

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Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water

on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

**Precautions:** 

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the

residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust.

Avoid contact with eyes Wear suitable protective clothing In case of insufficient ventilation, wear suitable

respiratory equipment If ingested, seek medical advice immediately and show the container or the label.

Storage:

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly

closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat

and away from strong oxidizing agents.

Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** 

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below

recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to

airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used

to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist

BEFORE handling this product. Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available. Taste: Not available.

Molecular Weight: 446.59 g/mole

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: Decomposes.

Melting Point: 168°C (334.4°F)

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

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Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available. Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water. Solubility: Partially soluble in cold water. Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available. Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass. Special Remarks on Reactivity: Not available. Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 584 mg/kg [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Very hazardous in case of ingestion.

Hazardous in case of inhalation.

Slightly hazardous in case of skin contact (irritant).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available. BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may

arise.

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Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Denatonium benzoate

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29

CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

R22- Harmful if swallowed.

R36- Irritating to eyes.

HMIS (U.S.A.): Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1 Reactivity: 0 Specific hazard:

**Protective Equipment:** 

Gloves.

Lab coat.

Dust respirator. Be sure to use an

approved/certified respirator or

equivalent. Wear appropriate respirator

when ventilation is inadequate.

Splash goggles.

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Section 16: Other Information References: Not available.

Other Special Considerations: Not available.

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