

MATERIAL SAFETY DATA SHEET

must be ready for instant use.

Inhalation: Remove to fresh air. If difficulty breathing, administer oxygen. Seek attention of a physician immediately. If necessary, provide artificial respiration. Closely monitor airway and provide mechanical respiration as necessary.

5. FIRE AND EXPLOSION HAZARD DATA
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Flash point	Not applicable.
Flammable limits	Not applicable.
Extinguishing media	Use water or a type ABC multi-purpose extinguisher.
Special Fire Fighting Procedures	As with all fires, evacuate personnel to a safe area. Fire fighters should wear self-contained breathing apparatus to avoid inhalation of smoke.
Unusual Fire/Explosion Hazards	Ground mechanical equipment in contact with dry material to dissipate the potential build up of static electricity as prevention against dust explosion. Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Release to Land:	Lightly wet Vecuronium Bromide powder and absorb with a damp absorbent cloth. Dispose according to local, state, and federal regulations.
Release to Air:	If dust is generated, reduce exposures by ventilating area. Clean spills immediately to prevent evaporation.
Release to Water:	Refer to local water authority. Drain disposal is not recommended.

7. HANDLING AND STORAGE

Steps to be taken in case material is released or spilled:	See Section 6 above. Wear double latex or nitrile gloves and safety glasses. A dust/mist respirator (N95) may be needed.
Waste Disposal Method:	Incineration in an approved/permitted incinerator is recommended. Refer to local, state, and federal guidelines.
Precautions to be taken in handling and storing	Store at 15 to 25°C in well-closed containers protected from light and moisture.
Other Precautions	Handle carefully; prevent dust generation.

8. CONTROLS MEASURES AND PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection	Under normal use, respirators are not needed. If dust generation is possible, a disposable dust/mist respirator (N95) should be worn.
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Personnel wearing respirators should be fit tested and approved for respirator use under the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Ventilation	Use with adequate ventilation such as a Class II Type A Biological Safety Cabinet
Protective Gloves	Nitrile or latex
Eye Protection	Safety glasses or goggles
Other Protective Clothing or Equipment	Lab coat with closed front, long sleeves.
Work/Hygienic Practices	Wash hands following use. No eating, drinking or smoking when handling Vecuronium Bromide.

9. PHYSICAL AND CHEMICAL PROPERTIES
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Physical State	Solid.
Specific Gravity	Not Applicable.
Appearance and Odor	White to off-white powder with no odor
Melting/freezing Point	Not Available.
Boiling Point:	Not Applicable.
Evaporation Rate	Not Applicable.
Vapor Pressure	Not Applicable.
Solubility in Water	Soluble in water.
pH	3.5 – 4.5
Vapor Density	Not Applicable.

10. STABILITY AND REACTIVITY

Stability	stable.
Conditions to Avoid	Strong oxidizers
Incompatibility (Materials to Avoid)	Avoid storing next to oxidizers
Hazardous Decomposition or Byproducts	When heated, products of combustion may include Hydrogen Bromide, nitrogen oxides, carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

LD₅₀ rat, oral	445 mg/kg
LD₅₀ mouse, oral	41mg/kg
LD₅₀ rat, interperitoneal	2630 mcg/kg

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LD₅₀ rat, oral	445 mg/kg
LD₅₀ mouse, intraperitoneal	142 mcg/kg
TDLO woman, oral	130 mcg/kg
LD₅₀ rat, subcutaneous	1730 mcg/kg
LD₅₀ rat, intravenous	200 mcg/kg

12. ECOLOGICAL INFORMATION

All work practices must be aimed at eliminating environmental contamination.

Environmental Stability: This product will be relatively stable under ambient environmental conditions.

Effect of Materials on Plants or Animals: No specific information is available on the effect on plants or animals in the environment.

Effect of Chemicals on Aquatic Life: No specific information is available on the effect on plants or animals in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Preparing Wastes for Disposal: This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use resulting in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials consult state and local regulations regarding the proper disposal of this material.

U.S. EPA Waste Number: None

14. TRANSPORT INFORMATION

Vecuronium Bromide is not a DOT Hazardous Material.

Vecuronium Bromide is not a DOT Marine Pollutant.