

MATERIAL SAFETY DATA SHEET
Diazepam Injection, USP

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ISSUED 09/01/99

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL NAME: Diazepam Injection, USP
List Number: 1273, 3210, 3213

MANUFACTURER: Hospital Products Division
Abbott Laboratories
Abbott Park, Illinois 60064

EMERGENCY TELEPHONE NUMBER: 1-847-937-7970
CHEMTREC TELEPHONE NUMBER: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	Ethyl Alcohol *
CAS/RTECS NUMBERS	64-17-5/K6300000
OSHA-PEL 8HR TWA	1000 ppm (1900 mg/m3)
STEL	N/L
CEILING	N/L
ACGIH-TLV 8HR TWA	1000 ppm (1880 mg/m3):
STEL	N/L
CEILING	N/L
OTHER 8HR TWA	N/A
LIMITS STEL	N/A
CEILING	N/A

* Hazardous per OSHA criteria

2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

INGREDIENT NAME	Benzyl Alcohol *
CAS/RTECS NUMBERS	100-51-6/DN3150000
OSHA-PEL 8HR TWA	N/L
STEL	N/L
CEILING	N/L
ACGIH-TLV 8HR TWA	N/L
STEL	N/L
CEILING	N/L
OTHER 8HR TWA	N/A
LIMITS STEL	N/A
CEILING	N/A

* Hazardous per OSHA criteria

INGREDIENT NAME	Propylene Glycol *
CAS/RTECS NUMBERS	57-55-6/TY2000000
OSHA-PEL 8HR TWA	N/L
STEL	N/L
CEILING	N/L
ACGIH-TLV 8HR TWA	N/L
STEL	N/L
CEILING	N/L
OTHER 8HR TWA	5 ppm total and 10 mg/m3, aerosol only (AIHA WEEL)
LIMITS STEL	N/A
CEILING	N/A

* Hazardous per OSHA criteria

INGREDIENT NAME	Diazepam *
CAS/RTECS NUMBERS	439-14-5/DF1575000
OSHA-PEL 8HR TWA	N/L
STEL	N/L
CEILING	N/L
ACGIH-TLV 8HR TWA	N/L
STEL	N/L
CEILING	N/L
OTHER 8HR TWA	8 mcg/m3 (Abbott Laboratories Guideline).
LIMITS STEL	N/A
CEILING	N/A

* Hazardous per OSHA criteria

3. HAZARDS INFORMATION

EMERGENCY OVERVIEW: In clinical use, this material depresses the central nervous system. Contact could irritate the skin or eyes. The active ingredient a potent drug, is toxic by ingestion and dermal exposure and is considered to be a reproductive hazard.

ROUTE(S) OF ENTRY: Skin: Unlikely
 Inhalation: Unlikely
 Ingestion: Unlikely

INGESTION RATING: Possibly toxic

SKIN ABSORPTION RATING: Possibly toxic

INHALATION RATING: N/D

CORROSIVENESS RATING: N/D

SKIN CONTACT RATING: Possible irritant

SKIN SENSITIZATION RATING: N/D

EYE CONTACT RATING: Possible irritant

TARGET ORGANS: Central nervous system, reproductive system

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L

ACGIH: N/L

Alcoholic beverages are classified by IARC as Group 1 human carcinogens.

SIGNS AND SYMPTOMS: N/D. In clinical use, the most common side effects include drowsiness, fatigue and ataxia. Overdosage can result in somnolence, confusion, coma and diminished reflexes. Infrequently other central nervous system changes, constipation, nausea, incontinence, urinary retention, changes in libido, bradycardia, hypotension, blurred vision and other ocular changes, urticaria and rashes can occur.

3. HAZARDS INFORMATION, continued

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D. Hypersensitivity to diazepam, glaucoma, respiratory or cardiovascular disease, epilepsy, concurrent use of central nervous system depressants including alcohol.

4. FIRST AID MEASURES

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care, monitoring respiration, pulse and blood pressure, along with intravenous fluid and maintenance of an adequate airway, as necessary. Hypotensive effects may be treated with levarterenol or metaraminol.

SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care, monitoring respiration, pulse and blood pressure, along with intravenous fluid and maintenance of an adequate airway, as necessary. Hypotensive effects may be treated with levarterenol or metaraminol.

INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care, monitoring respiration, pulse and blood pressure, along with intravenous fluid and maintenance of an adequate airway, as necessary. Hypotensive effects may be treated with levarterenol or metaraminol.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. No known antidote. Provide symptomatic/supportive care, monitoring respiration, pulse and blood pressure, along with intravenous fluid and maintenance of an adequate airway, as necessary. Hypotensive effects may be treated with levarterenol or metaraminol.

5. FIRE FIGHTING PROCEDURES

FLASH POINT	48 C
FLASH POINT METHOD	Tagliabue closed tester/tag closed tested
LOWER EXPLOSIVE LIMIT(%)	N/D
UPPER EXPLOSIVE LIMIT(%)	N/D
AUTOIGNITION TEMPERATURE	N/D

FIRE & EXPLOSION HAZARDS Due to alcohol content, this material will burn readily.

EXTINGUISHING MEDIA: Dry chemical, foam or carbon dioxide is recommended.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR RELEASE PROCEDURES: Absorb with suitable material, flush with water.

7. HANDLING AND STORAGE

HANDLING: Protect from light and heat.

STORAGE: Store at controlled room temperature of 15-30 degrees C (59-86 degrees F).

SPECIAL PRECAUTIONS: Store away from heat. Protect from light.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: No special provisions are required under normal conditions of use or administration.

RESPIRATORY PROTECTION: Respiratory protection is not required during normal product use. For conditions of use where unknown concentrations of vapor are generated, a self-contained breathing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION, continued

apparatus is recommended.

SKIN PROTECTION: Under normal product use conditions, skin protection is not anticipated. Impervious gloves are needed if skin contact is likely.

EYE PROTECTION: Eye protection is not required during typical product use conditions. Eye protection is needed if eye contact is likely.

OTHER PROTECTION: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Clear liquid

ODOR: N/A

BOILING POINT: 98 deg. C

MELTING/FREEZING POINT: N/D

VAPOR PRESSURE (mm Hg): 43 mm Hg @ 23 C (ethyl alcohol); 0.07 mm Hg @ 20 C (propylene glycol); 1.0 mm Hg @ 58 C (benzyl alcohol)

VAPOR DENSITY (Air=1) 1.59(ethyl alcohol); 2.6 (propylene glycol); 3.72 (benzyl alcohol)

EVAPORATION RATE N/A

BULK DENSITY N/D

SPECIFIC GRAVITY 1.0349

SOLUBILITY Slightly soluble in water

pH 6.2 - 6.9

VISCOSITY 5.97 centipoise

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Avoid heat, sparks and open flame.

INCOMPATIBILITIES: Oxidizing agents, acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, aldehydes or organic acids may be found.

HAZARDOUS POLYMERIZATION: N/D

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY: N/D. LD50 = 220-1520 mg/kg in rats, mice and rabbits for diazepam (Toxic).

DERMAL TOXICITY: N/D. LD50 = 800 mg/kg in mice for diazepam (Toxic).

INHALATION TOXICITY: N/D

CORROSIVENESS: N/D

DERMAL IRRITATION: N/D. Propylene glycol, benzyl alcohol and ethyl alcohol are mild to severe skin irritants in man or rabbits and guinea pigs.

OCULAR IRRITATION: N/D. Ethyl alcohol, propylene glycol and benzyl alcohol are mild to severe eye irritants in rabbits.

DERMAL SENSITIZATION: N/D

SPECIAL TARGET ORGAN EFFECTS: N/D. In clinical use, diazepam affects the central nervous system producing sedation and calming. Use of diazepam during pregnancy is associated with an increased risk of congenital malformations. Prolonged use results in tolerance and psychological and physical dependence. Ethyl alcohol is known to produce liver injury, is reported to be mutagenic and is teratogenic in humans.

CARCINOGENICITY INFORMATION: N/D

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/D

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Dispose of in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

DOT STATUS Not Regulated
PROPER SHIPPING NAME N/A
HAZARD CLASS N/A
UN NUMBER N/A
PACKING GROUP N/A
REPORTABLE QUANTITY N/A

IATA/ICAO STATUS Not Regulated
PROPER SHIPPING NAME N/A
HAZARD CLASS N/A
UN NUMBER N/A
PACKING GROUP N/A
REPORTABLE QUANTITY N/A

IMO STATUS Not Regulated
PROPER SHIPPING NAME N/A
HAZARD CLASS N/A
UN NUMBER N/A
PACKING GROUP N/A
REPORTABLE QUANTITY N/A
FLASH POINT 48 C

15. REGULATORY INFORMATION

TSCA STATUS: N/A

CERCLA STATUS: N/L

SARA STATUS: N/L

RCRA STATUS: N/L

PROP 65 (CA): N/L

16. OTHER INFORMATION

LEGEND: N/A = Not Applicable
N/D = Not Determined
N/L = Not Listed
L = Listed
C = Ceiling
S = Short-term
(R) = Registered Trademark of Abbott Laboratories
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