## SAFETY DATA SHEET

### Midazolam Injection, USP



## **Section 1. Identification**

**GHS** product identifier

: Midazolam Injection, USP

**Synonyms** 

: Midazolam HCI Injection

**Product code** 

: NDC 0641-6056-01, NDC 0641-6056-10, NDC 0641-6057-01, NDC 0641-6057-25, NDC 0641-6057-10, NDC 0641-6059-01, NDC 0641-6059-10, NDC 0641-6060-01, NDC 0641-6060-10, NDC 0641-6061-01, NDC 0641-6061-25, NDC 0641-6061-10,

NDC 0641-6063-01, NDC 0641-6063-25, NDC 0641-6063-10

**Chemical family** 

: Benzodiazepine

**Product type Container information** 

: Regulated prescription drug. : 1 ml, 2 ml, 5 ml, and 10 ml vials.

**Identified uses** 

Pharmaceutical.

Supplier's details

: West-Ward Pharmaceutical Corp.

465 Industrial Way West Eatontown NJ 07724 USA

**Emergency telephone** number (with hours of

operation)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

## Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

**GHS label elements** 

Signal word

: No signal word.

**Hazard statements** 

: No known significant effects or critical hazards.

**Precautionary statements** 

**General** 

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable. Response : Not applicable. **Storage** : Not applicable. **Disposal** : Not applicable. Hazards not otherwise : None known.

classified



## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Midazolam HCI Injection

#### **CAS** number/other identifiers

**CAS number** : Not applicable.

Product code : NDC 0641-6056-01, NDC 0641-6056-10, NDC 0641-6057-01, NDC 0641-6057-25,

NDC 0641-6057-10, NDC 0641-6059-01, NDC 0641-6059-10, NDC 0641-6060-01, NDC 0641-6060-10, NDC 0641-6061-01, NDC 0641-6061-25, NDC 0641-6061-10,

NDC 0641-6063-01, NDC 0641-6063-25, NDC 0641-6063-10

Ingredient name		CAS number
Water	60 - 100	7732-18-5
Benzyl alcohol	0.1 - 1	100-51-6
Sodium Chloride	0.1 - 1	7647-14-5
Midazolam hydrochloride	0.1 - 1	59467-96-8
Disodium dihydrogen ethylenediaminetetraacetate	0 - 0.1	139-33-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

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

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** 

: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.



## Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon dioxide

carbon monoxide

**Special protective actions** for fire-fighters

: No special measures are required.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Spill** 

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : 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. See also Section 8 for additional information on hygiene measures.





## Section 7. Handling and storage

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits
Benzyl Alcohol	AIHA WEEL (United States, 10/2011). TWA: 10 ppm 8 hours.

**Appropriate engineering** controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

**Skin protection** 

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### **Appearance**

**Physical state** : Liquid.

Color : Colorless to light yellow.

Odor : Odorless. : Not available. **Odor threshold** : 2.9 to 3.7 **Melting point** : Not available.





(flammable) limits

## Section 9. Physical and chemical properties

Boiling point : Not available.
Flash point : Not available.
Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

Vapor pressure : Not available.
Vapor density : Not available.
Relative density : Not available.

**Solubility** : Soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials**: Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzyl Alcohol	LD50 Dermal LD50 Oral		2000 mg/kg 1230 mg/kg	-

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzyl Alcohol	Skin - Moderate irritant	Rabbit		24 hours 100 mg	-
	Skin - Mild irritant	Man		48 hours 16 mg	-
	Skin - Moderate irritant	Pig	-	100%	-

#### **Sensitization**

There is no data available.

### **Carcinogenicity**

There is no data available.

### **Specific target organ toxicity (single exposure)**

There is no data available.





## **Section 11. Toxicological information**

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Ingestion.

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

**Potential immediate** 

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

#### Potential chronic health effects

General
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Route	ATE value
Oral	123000 mg/kg
Inhalation (vapors)	1100 mg/L





## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute IC50 700 mg/L	Algae - Scenedesmus subspicatus Algae Fish - Lepomis macrochirus	96 hours 72 hours 96 hours

### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Benzyl Alcohol	OECD 301C 301C Ready Biodegradability - Modified MITI Test (I)	92 to 96 % - 28 days		-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Benzyl Alcohol	-				Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzyl Alcohol	0.87	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-



#### Midazolam Injection, USP

## **Section 14. Transport information**

Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG**: Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): Not determined.

**Clean Air Act Section 112** 

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

**Clean Air Act Section 602** 

**Class I Substances** 

: Not listed

Clean Air Act Section 602

: Not listed

**Class II Substances** 

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

### **Composition/information on ingredients**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

#### **Composition/information on ingredients**

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Benzyl Alcohol	0.1 - 1	No.	No.	No.	Yes.	No.

### **State regulations**

**Massachusetts** : The following components are listed: Benzyl Alcohol

**New York** : None of the components are listed. **New Jersey** : None of the components are listed.

: The following components are listed: Benzyl Alcohol Pennsylvania

California Prop. 65



## **Section 15. Regulatory information**

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	Cancer	•		Maximum acceptable dosage level
8-Chloro-6-(2-fluorophenyl)-1-methyl-4H-imidazo[1, 5-a][1,4]benzodiazepine monohydrochloride	No.	Yes.	No.	No.

#### **International regulations**

International lists : Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

**Japan inventory**: Not determined. **Korea inventory**: Not determined.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or

exempted.

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

**Chemical Weapons Convention List Schedule** 

Convention List Sched

I Chemicals

**Chemical Weapons Convention List Schedule** 

II Chemicals

Chemical Weapons

**Convention List Schedule** 

**III Chemicals** 

: Not listed

: Not listed

: Not listed

# Section 16. Other information

### **History**

Date of issue mm/dd/yyyy : 12/15/2013

Version : 1

Revised Section(s) : Not applicable.

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

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