# Hydralazine Hydrochloride Injection Safety Data Sheet

SECTION 1: Identification	
1.1. Identification	
Product name	: Hydralazine Hydrochloride Injection; 20 mg per mL; 1 mL Single-Dose Vials Package of 25; NDC 55150-400-25
	ubstance or mixture and uses advised against
Use of the substance/mixture	: Pharmaceutical
1.3. Details of the supplier of the safe	ety data sheet
Eugia US LLC 279 Princeton Highstown Road East Windsor, NJ 08520	
1.4. Emergency telephone number	
Emergency number	: 1-888-238-7880
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance o	or mixture
GHS US classification	
Skin Irrit. 2 H315	
Eye Irrit. 2 H319	
Full text of hazard classes and H-statements	: see section 16
2.2. Label elements	
GHS US labeling	
	GHS07
Signal word (GHS US)	: Warning
Hazard statements (GHS US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (GHS US)	<ul> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - If on skin: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> </ul>
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US	3)
Not applicable	
SECTION 3: Composition/Informa	tion on ingredients
poolitoninitorinit	
3.1. Substances	
3.1. Substances Not applicable	

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Name	Product identifier	%	GHS US classification
Water	(CAS-No.) 7732-18-5	< 99	Not classified
1,2-Propanediol	(CAS-No.) 57-55-6	10 – 12	Not classified
Hydralazine hydrochloride	(CAS-No.) 304-20-1	2	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Sodium hydroxide	(CAS-No.) 1310-73-2	≤1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318
Hydrochloric acid	(CAS-No.) 7647-01-0	≤ 1	Skin Corr. 1, H314 Eye Dam. 1, H318
Propyl 4-hydroxybenzoate	(CAS-No.) 94-13-3	≤1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Benzoic acid, 4-hydroxy-, methyl ester	(CAS-No.) 99-76-3	≤1	Aquatic Chronic 3, H412

**SECTION 4: First aid measures** 4.1. **Description of first aid measures** First-aid measures after inhalation : If not breathing, give artificial respiration. First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. First-aid measures after eye contact In case of contact with eyes, rinse immediately with plenty of water. Seek immediate medical attention. First-aid measures after ingestion Wash mouth with water. Do not induce vomiting unless directed by medical personnel. Seek immediate medical attention. 42 Most important symptoms and effects, both acute and delayed Symptoms/effects after inhalation : None antcipated under normal product handling conditions. Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed. 4.3. Indication of any immediate medical attention and special treatment needed No additional information available SECTION 5: Firefighting measures 5.1. **Extinguishing media** Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media : None. 5.2. Special hazards arising from the substance or mixture Fire hazard : None known. 5.3. **Advice for firefighters** Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. **SECTION 6: Accidental release measures** 6.1. Personal precautions, protective equipment and emergency procedures General measures : No special measures required. 6.1.1. For non-emergency personnel No additional information available 6.1.2. For emergency responders No additional information available 6.2. **Environmental precautions** Prevent entry to sewers and public waters. 6.3. Methods and material for containment and cleaning up For containment : Stop the flow of material, if this is without risk. Methods for cleaning up : Recycle product or dispose safely.

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6.4.	Reference to other sections	
No add	itional information available	
SECT	ION 7: Handling and storage	9
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including any incompatibilities		
Storage	e conditions	: Keep container tightly closed. Store between 20°C and 25°C (68°F and 77°F).

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Water (7732-18-5)			
Not applicable	Not applicable		
1,2-Propanediol (57-	-55-6)		
AIHA	WEEL TWA	10 mg/m <sup>3</sup>	
Sodium hydroxide (	1310-73-2)		
ACGIH	ACGIH OEL Ceiling	2 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) [1]	2 mg/m <sup>3</sup>	
IDLH	IDLH	10 mg/m <sup>3</sup>	
NIOSH	NIOSH REL (Ceiling)	2 mg/m <sup>3</sup>	
Hydrochloric acid (7	7647-01-0)	<u> </u>	
ACGIH	ACGIH OEL Ceiling [ppm]	2 ppm	
OSHA	OSHA PEL (Ceiling)	7 mg/m <sup>3</sup>	
OSHA	OSHA PEL C [ppm]	5 ppm	
IDLH	IDLH [ppm]	50 ppm	
NIOSH	NIOSH REL (Ceiling)	7 mg/m <sup>3</sup>	
NIOSH	NIOSH REL C [ppm]	5 ppm	
Propyl 4-hydroxybe	nzoate (94-13-3)	<u> </u>	
Not applicable			
Benzoic acid, 4-hydroxy-, methyl ester (99-76-3)			
Not applicable			
Hydralazine hydrochloride (304-20-1)			
Not applicable			

8.2. Exposure controls	
Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: Use suitable protective gloves to minimize skin contact.
Eye protection	: Wear safety glasses or goggles.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: Wear NIOSH approved respirator if workplace exposure limits may be exceeded.

# SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Appearance : Clear. Color : Colorless Odor : odorless Odor threshold : No data available

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рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity No additional information available		
10.2. Chemical stability		
The product is stable at normal handling and stora	age conditions.	
10.3. Possibility of hazardous reactions		
Will not occur.		
10.4. Conditions to avoid		
Do not freeze.		
10.5. Incompatible materials		
None known.		
10.6. Hazardous decomposition products		
None known.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Aguta tovicity	: Not classified	
Acute toxicity		
Water (7732-18-5)		
LD50 oral rat	> 90 ml/kg	
1,2-Propanediol (57-55-6)		
LD50 oral rat	20 g/kg	
LD50 dermal rabbit	20800 mg/kg	
ATE US (oral)	20000 mg/kg body weight	
ATE US (dermal)	20800 mg/kg body weight	
Sodium hydroxide (1310-73-2)		

LD50 dermal rabbit

ATE US (dermal)

LD50 oral rat

1350 mg/kg

1350 mg/kg

140 – 340 mg/kg

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Hydrochloric acid (7647-01-0)	
LD50 oral rat	238 – 277 mg/kg
LD50 dermal rabbit	> 5010 mg/kg
LC50 Inhalation - Rat	1.68 mg/l (Exposure time: 1 h)
ATE US (oral)	238 mg/kg body weight
ATE US (vapors)	1.68 mg/l/4h
ATE US (dust, mist)	1.68 mg/l/4h
Benzoic acid, 4-hydroxy-, methyl este	r (99-76-3)
ATE US (oral)	2100 mg/kg
Hydralazine hydrochloride (304-20-1)	
ATE US (oral)	100 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Hydrochloric acid (7647-01-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
<b>SECTION 12: Ecological inform</b>	ation
12.1. Toxicity	
1,2-Propanediol (57-55-6)	54000 with (Even even three 00 his Orientics Orienthus three within fact the 11
LC50 - Fish [1]	51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 - Crustacea [1]	<ul> <li>&gt; 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])</li> <li>41 – 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])</li> </ul>
LC50 - Fish [2]	41 – 47 min (⊏xposure time: 96 n - Species: Oncomynchus mykiss [static])
Sodium hydroxide (1310-73-2)	
LC50 - Fish [1]	45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

## 12.2. Persistence and degradability

No additional information available

12.3. Bioaccumula	ive potential	
1,2-Propanediol (57-5	5-6)	
BCF - Fish [1]	<1	

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

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ECTION 13: Disposal conside	
3.1. Waste treatment methods	
roduct/Packaging disposal recommenda	tions : Dispose of contents/container in accordance with local/regional/national/international regulations.
SECTION 14: Transport inform	ation
Department of Transportation (DOT)	International Air Transport Association (IATA)
n accordance with DOT	In accordance with IATA
lot applicable	Not applicable
SECTION 15: Regulatory inform	nation
5.1. US Federal regulations	
Water (7732-18-5)	
Listed on the United States TSCA (Toxic	Substances Control Act) inventory
1,2-Propanediol (57-55-6)	
Listed on the United States TSCA (Toxic	Substances Control Act) inventory
Sodium hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic	Substances Control Act) inventory
CERCLA RQ	1000 lb
Hydrochloric acid (7647-01-0)	
Listed on the United States TSCA (Toxic Listed on the United States SARA Secti Subject to reporting requirements of United	on 302
CERCLA RQ	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb (gas only)
SARA Section 313 - Emission Reporting	1 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)
Propyl 4-hydroxybenzoate (94-13-3)	
Listed on the United States TSCA (Toxic	Substances Control Act) inventory
Benzoic acid, 4-hydroxy-, methyl este Listed on the United States TSCA (Toxic	

## 15.2. US State regulations

# 1,2-Propanediol (57-55-6)

- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# Sodium hydroxide (1310-73-2)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# Hydrochloric acid (7647-01-0)

- U.S. Massachusetts Right To Know List
- U.S. Minnesota Hazardous Substance List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

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# **SECTION 16: Other information**

## Full text of H-phrases:

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Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1	Skin corrosion/irritation Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H290	May be corrosive to metals
H301	Toxic if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H412	Harmful to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.