

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Nicardipine Hydrochloride Injection, USP

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** Anti-hypertensive, treatment of chronic stable angina

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

WG Critical Care, LLC  
120 Route 17 North, Suite 115  
Paramus, NJ 07652 USA  
+ 1-888-493-0861

[wgccquality@wgcriticalcare.com](mailto:wgccquality@wgcriticalcare.com)

<https://www.wgcriticalcare.com/>

#### 1.4. Emergency Telephone Number

**Emergency Number** : +1-866-562-4708 (ProPharma)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US Classification

Acute toxicity (inhalation:dust,mist) Category 4

H332

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Warning

##### Hazard Statements (GHS-US)

: H332 - Harmful if inhaled.

##### Precautionary Statements (GHS-US)

: P261 - Avoid breathing vapors, mist, or spray.  
P271 - Use only outdoors or in a well-ventilated area.  
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P312 - Call a poison center or doctor if you feel unwell.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name                      | Synonyms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Product Identifier      | %       | GHS US classification                                                  |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------|------------------------------------------------------------------------|
| Water                     | AQUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | (CAS-No.)<br>7732-18-5  | 98 – 99 | Not classified.                                                        |
| Nicardipine hydrochloride | 3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, 3-methyl 5-[2-[methyl(phenylmethyl)amino]ethyl] ester, hydrochloride (1:1)<br>nicardipine hydrochloride<br>2-(Benzylmethylamino)ethyl methyl 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)pyridine-3,5-dicarboxylatemonohydrochloride<br>3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(m-nitrophenyl)-, 2-(benzylmethyl amino)ethyl methyl ester, monohydrochloride<br>3,5-Pyridinedicarboxylic acid, 1,4-dihydro-2,6-dimethyl-4-(3-nitrophenyl)-, methyl 2-[methyl(phenylmethyl)amino]ethyl ester, monohydrochloride | (CAS-No.)<br>54527-84-3 | < 1     | Acute Tox. 3 (Oral), H301<br>Acute Tox. 2 (Inhalation:dust,mist), H330 |

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|                  |                                                                                                                                                                                                         |                        |       |                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sodium chloride  | Sodium salt of hydrochloric acid<br>Salt<br>SEA SALT<br>SODIUM CHLORIDE<br>Sodium chloride (NaCl)<br>Sea salt                                                                                           | (CAS-No.)<br>7647-14-5 | < 1   | Not classified.                                                                                                                                       |
| D-Glucitol       | Sorbitol<br>D-Sorbitol<br>Sorbitol, D-<br>SORBITOL<br>sorbitol                                                                                                                                          | (CAS-No.)<br>50-70-4   | < 1   | Comb. Dust                                                                                                                                            |
| Citric acid      | 1,2,3-Propanetricarboxylic acid, 2-hydroxy-<br>CITRIC ACID<br>2-Hydroxypropane-1,2,3-tricarboxylic acid<br>Anhydrous citric acid<br>2-Hydroxy-1,2,3-propanetricarboxylic acid<br>Citric acid, anhydrous | (CAS-No.)<br>77-92-9   | < 1   | Eye Irrit. 2A, H319<br>STOT SE 3, H335<br>Comb. Dust                                                                                                  |
| Sodium hydroxide | Caustic soda<br>Sodium hydroxide (Na(OH))<br>SODIUM HYDROXIDE<br>LYE                                                                                                                                    | (CAS-No.)<br>1310-73-2 | < 0.1 | Met. Corr. 1, H290<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal),<br>H312<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 3, H402 |

\* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the 29 CFR 1910.1200. Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). Full text of H-phrases: see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** Harmful if inhaled.

**Symptoms/Injuries After Inhalation:** Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Solutions do not burn. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** None known.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

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**Hazardous Combustion Products:** Oxides of carbon, nitrogen, sodium, and chlorine compounds.  
**Other Information:** No additional information available.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1. Personal Precautions, Protective Equipment and Emergency Procedures**  
**General Measures:** Do not get in eyes, on skin, or on clothing. Avoid breathing (vapor, mist, spray). If product is biologically contaminated, follow all institutional protocols concerning the potential release of pathogens.

**6.1.1. For Non-Emergency Personnel**  
**Protective Equipment:** Use appropriate personal protective equipment (PPE).  
**Emergency Procedures:** Evacuate unnecessary personnel.

**6.1.2. For Emergency Personnel**  
**Protective Equipment:** Equip cleanup crew with proper protection.  
**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

**6.2. Environmental Precautions**  
Prevent entry to sewers and public waters.

**6.3. Methods and Materials for Containment and Cleaning Up**  
**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area.  
**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**6.4. Reference to Other Sections**  
See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for Safe Handling**  
**Additional Hazards When Processed:** Material may be biologically contaminated with pathogenic organisms during use.  
**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Use only outdoors or in a well-ventilated area. Contaminated sharps should be handled with care and discarded immediately or as soon as possible in containers that are closable, puncture-resistant, leak proof on sides and bottoms, and appropriately labeled. Contact your local health department for referral to a syringe disposal program. In hospital and workplace settings, contaminated sharps are to be handled in accordance with EC Directive 2010/32/EU.  
**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

**7.2. Conditions for Safe Storage, Including Any Incompatibilities**  
**Technical Measures:** Comply with applicable regulations.  
**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store at controlled room temperature (20-25 °C / 68-77 °F).  
**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

**7.3. Specific End Use(s)**  
Anti-hypertensive, treatment of chronic stable angina

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control Parameters**  
For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Sodium hydroxide (1310-73-2) |                     |          |
|------------------------------|---------------------|----------|
| USA ACGIH                    | ACGIH OEL Ceiling   | 2 mg/m³  |
| USA NIOSH                    | NIOSH REL (Ceiling) | 2 mg/m³  |
| USA IDLH                     | IDLH                | 10 mg/m³ |
| USA OSHA                     | OSHA PEL TWA        | 2 mg/m³  |

**8.2. Exposure Controls**  
**Appropriate Engineering Controls** : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when toxic gases may be released.

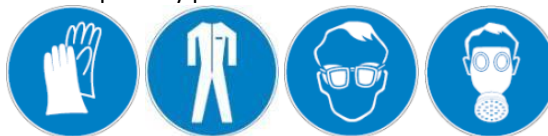
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### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles or glasses. Insufficient ventilation: wear respiratory protection.



### Materials for Protective Clothing

: Chemically resistant materials and fabrics.

### Hand Protection

: Wear protective gloves.

### Eye and Face Protection

: Chemical goggles or safety glasses.

### Skin and Body Protection

: Wear suitable protective clothing.

### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

### Thermal Hazard Protection

: Not applicable.

### Environmental Exposure Controls

: Avoid unnecessary release into the environment.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|                                        |                          |
|----------------------------------------|--------------------------|
| Physical State                         | : Liquid                 |
| Appearance                             | : Clear yellowish liquid |
| Odor                                   | : No data available      |
| Odor Threshold                         | : No data available      |
| pH                                     | : 3.7 – 4.7              |
| Evaporation Rate                       | : No data available      |
| Melting Point                          | : No data available      |
| Freezing Point                         | : No data available      |
| Boiling Point                          | : > 100 °C (212 °F)      |
| Flash Point                            | : No data available      |
| Auto-ignition Temperature              | : No data available      |
| Decomposition Temperature              | : No data available      |
| Flammability (solid, gas)              | : Not applicable         |
| Vapor Pressure                         | : No data available      |
| Relative Vapor Density at 20°C         | : No data available      |
| Relative Density                       | : No data available      |
| Density                                | : 1.017 g/ml             |
| Solubility                             | : Water: Miscible        |
| Partition Coefficient: N-Octanol/Water | : No data available      |
| Viscosity                              | : No data available      |

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Oxides of carbon, nitrogen, sodium, and chlorine compounds.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects

**Acute Toxicity (Oral):** Not classified.

**Acute Toxicity (Dermal):** Not classified.

**Acute Toxicity (Inhalation):** Inhalation:dust,mist: Harmful if inhaled.

|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| <b>Nicardipine Hydrochloride Injection, USP</b> |                                                 |
| <b>ATE (Dust/Mist)</b>                          | 5.00 mg/l/4h                                    |
| <b>Nicardipine hydrochloride (54527-84-3)</b>   |                                                 |
| <b>LD50 Oral Rat</b>                            | 184 mg/kg (Source: NLM_CIP)                     |
| <b>ATE (Dust/Mist)</b>                          | 0.05 mg/l/4h                                    |
| <b>Sodium chloride (7647-14-5)</b>              |                                                 |
| <b>LD50 Oral Rat</b>                            | 3550 mg/kg (Species: Wistar)                    |
| <b>LD50 Dermal Rabbit</b>                       | > 10000 mg/kg (Species: New Zealand White)      |
| <b>LC50 Inhalation Rat</b>                      | > 42 mg/l (Exposure time: 1 h Source: ECHA_API) |
| <b>D-Glucitol (50-70-4)</b>                     |                                                 |
| <b>LD50 Oral Rat</b>                            | 15.9 g/kg                                       |
| <b>Citric acid (77-92-9)</b>                    |                                                 |
| <b>LD50 Oral Rat</b>                            | 3 g/kg (Source: NLM_CIP)                        |
| <b>LD50 Dermal Rat</b>                          | > 2000 mg/kg (Source: EU_CLH)                   |
| <b>Sodium hydroxide (1310-73-2)</b>             |                                                 |
| <b>LD50 Oral Rat</b>                            | 325 mg/kg                                       |
| <b>LD50 Dermal Rabbit</b>                       | 1350 mg/kg (Source: NLM_HSDB)                   |
| <b>Water (7732-18-5)</b>                        |                                                 |
| <b>LD50 Oral Rat</b>                            | > 90 ml/kg (Source: FOOD_JOURN)                 |

**Skin Corrosion/Irritation:** Not classified.

**pH:** 3.7 – 4.7

**Serious Eye Damage/Irritation:** Not classified.

**pH:** 3.7 – 4.7

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Inhalation is likely to cause adverse health effects including but not limited to: irritation, difficulty breathing, and unconsciousness.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

**Ecology - General** : Not classified.

|                                    |                                                                                             |
|------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Sodium chloride (7647-14-5)</b> |                                                                                             |
| <b>LC50 Fish 1</b>                 | 5560 (5560 – 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| <b>EC50 - Crustacea [1]</b>        | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                    |
| <b>LC50 Fish 2</b>                 | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)        |
| <b>EC50 - Crustacea [2]</b>        | 340.7 (340.7 – 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])          |
| <b>NOEC Chronic Fish</b>           | 252 mg/l (Species: Pimephales promelas)                                                     |
| <b>Citric acid (77-92-9)</b>       |                                                                                             |
| <b>LC50 Fish 1</b>                 | 1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus Source: OECD_SIDS)            |

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|                                     |                                                                         |
|-------------------------------------|-------------------------------------------------------------------------|
| <b>Sodium hydroxide (1310-73-2)</b> |                                                                         |
| <b>LC50 Fish 1</b>                  | 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| <b>EC50 - Crustacea [1]</b>         | 40 mg/l                                                                 |

### 12.2. Persistence and Degradability

|                                                 |                                 |
|-------------------------------------------------|---------------------------------|
| <b>Nicardipine Hydrochloride Injection, USP</b> |                                 |
| <b>Persistence and Degradability</b>            | Expected to be biodegradable.   |
| <b>Citric acid (77-92-9)</b>                    |                                 |
| <b>Persistence and Degradability</b>            | Readily biodegradable in water. |

### 12.3. Bioaccumulative Potential

|                                                        |                                |
|--------------------------------------------------------|--------------------------------|
| <b>Nicardipine Hydrochloride Injection, USP</b>        |                                |
| <b>Bioaccumulative Potential</b>                       | Not expected to bioaccumulate. |
| <b>Sodium chloride (7647-14-5)</b>                     |                                |
| <b>BCF Fish 1</b>                                      | (no bioaccumulation)           |
| <b>Citric acid (77-92-9)</b>                           |                                |
| <b>Partition coefficient n-octanol/water (Log Pow)</b> | -1.72 (at 20 °C)               |

### 12.4. Mobility in Soil

|                                                 |                                                     |
|-------------------------------------------------|-----------------------------------------------------|
| <b>Nicardipine Hydrochloride Injection, USP</b> |                                                     |
| <b>Ecology - Soil</b>                           | Adsorbs into the soil. Leaches if exposed to water. |

### 12.5. Other Adverse Effects

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Other Adverse Effects</b> | : None known.                       |
| <b>Other Information</b>     | : Avoid release to the environment. |

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

**Waste Treatment Methods:** Incineration is the preferred method for disposal of waste product. Can be landfilled, when in compliance with local regulations.

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer. Do not empty into drains.

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid unnecessary release into the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|                                                                                            |                                                        |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Nicardipine Hydrochloride Injection, USP</b>                                            |                                                        |
| <b>SARA Section 311/312 Hazard Classes</b>                                                 | Health hazard - Acute toxicity (any route of exposure) |
| <b>Sodium chloride (7647-14-5)</b>                                                         |                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |                                                        |
| <b>D-Glucitol (50-70-4)</b>                                                                |                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |                                                        |
| <b>Citric acid (77-92-9)</b>                                                               |                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |                                                        |
| <b>Sodium hydroxide (1310-73-2)</b>                                                        |                                                        |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |                                                        |
| <b>CERCLA RQ</b>                                                                           | 1000 lb                                                |

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|                                                                                            |
|--------------------------------------------------------------------------------------------|
| <b>Water (7732-18-5)</b>                                                                   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active |

## 15.2. US State Regulations

|                                                                       |
|-----------------------------------------------------------------------|
| <b>Sodium hydroxide (1310-73-2)</b>                                   |
| U.S. - New Jersey - Right to Know Hazardous Substance List            |
| U.S. - Pennsylvania - RTK (Right to Know) List                        |
| U.S. - Massachusetts - Right To Know List                             |
| U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

|                                               |                                                                                                                                      |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Date of Preparation or Latest Revision</b> | : 12/05/2024                                                                                                                         |
| <b>Other Information</b>                      | : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 |

### GHS Full Text Phrases:

|      |                                         |
|------|-----------------------------------------|
| H290 | May be corrosive to metals              |
| H301 | Toxic if swallowed                      |
| H302 | Harmful if swallowed                    |
| H312 | Harmful in contact with skin            |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage               |
| H319 | Causes serious eye irritation           |
| H330 | Fatal if inhaled                        |
| H332 | Harmful if inhaled                      |
| H335 | May cause respiratory irritation        |
| H402 | Harmful to aquatic life                 |

### Glossary of Data Source Abbreviations

|                                                                                                                                           |                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)                                    | FOOD_JOURN: Food Research Journal (1956)                                                                           |
| AU_WES: Australia WES                                                                                                                     | IARC: The International Agency for Research on Cancer                                                              |
| CHEMVIEW: ChemView (U.S. Environmental Protection Agency)                                                                                 | IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles |
| EC_RAR: European Commission Renewal Assessment Report                                                                                     | IUCLID: International Uniform Chemical Information Database                                                        |
| EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits                                                        | JAPAN_GHS: Japan GHS Basis for Classification Data                                                                 |
| ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports                                                             | JP_J-CHECK: Japan J-Check                                                                                          |
| ECHA_API: European Chemicals Agency API                                                                                                   | KR_NIER: South Korea National Institute of Environmental Research Evaluations                                      |
| ECHA_RAC: ECHA Committee for Risk Assessment                                                                                              | NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme                                 |
| EFSA: European Food Safety Authority                                                                                                      | NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)        |
| EPA: U.S. Environmental Protection Agency                                                                                                 | NLM_CIP: National Library of Medicine ChemID plus database                                                         |
| EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)                                                          | NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank                                               |
| EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency) | NLM_PUBMED: National Library of Medicine PubMed database                                                           |
| EPA_HPVP: High Production Volume Chemicals (U.S. Environmental Protection Agency)                                                         | NTP: National Toxicology Program                                                                                   |
| EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)                          | NZ_CCID: New Zealand Chemical Classification and Information Database                                              |
| EU_CLH: European Union Harmonised Classification and Labelling Proposal                                                                   | OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)    |
| EU_RAR: European Union Risk Assessment Report                                                                                             | OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)                |
|                                                                                                                                           | WHO: World Health Organization                                                                                     |

*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.*

SDS US (GHS HazCom)