

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations
Date of Issue: 07/08/2020

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier Product Form: Mixture

Product Name: Hydralazine Hydrochloride Injection, USP

Product Code: 0517-0901-25, 0517-0901-01 **1.2. Intended Use of the Product**

Use of the Substance/Mixture: Severe essential hypertension when the drug cannot be given orally or when there is an urgent

need to lower blood pressure.

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

Company

American Regent, Inc. 5 Ramsey Road Shirley, NY 11967 1-800-645-1706

www.americanregent.com

1.4. Emergency Telephone Number

Emergency Number : CHEMTREC 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Skin Sens. 1 H317

Full text of hazard classes and H-statements: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Warning

Hazard Statements (GHS-US) : H317 - May cause an allergic skin reaction.

Precautionary Statements (GHS-US) : P261 - Avoid breathing mist, spray, vapors.

P272 - Contaminated work clothing must not be allowed out of the workplace.

P280 - Wear protective gloves, protective clothing, and eye protection.

P302+P352 - If on skin: Wash with plenty of water. P321 - Specific treatment (see section 4 on this SDS).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national,

and international regulations.

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.) 7732-18-5 | 87.5 | Not classified |
| (Injection purposes) | | | | |
| 1,2-Propanediol | 1,2-Propylene glycol / 1,2- Dihydroxypropane / Propane-1,2- diol / Propylene glycol / PROPYLENE GLYCOL | (CAS-No.) 57-55-6 | 10.4 | Not classified |

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| 1(2H)-Phthalazinone, hydrazone, monohydrochloride | Apresoline hydrochloride / Hydralazine chloride / Hydralazine monohydrochloride / 1-Hydrazinophthalazine hydrochloride / Hydralazine hydrochloride / 1- Hydrazinophthalazine monohydrochloride / Phthalazine, 1-hydrazino-, monohydrochloride / 1(2H)- Phthalazinone, hydrazone hydrochloride / Phthalazinone, hydrazone, monohydrochloride / Phthalazine, 1-hydrazinyl-, hydrochloride (1:1) | (CAS-No.) 304-20-1 | 2 | Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT SE 3, H335 |
|---|---|---------------------|-------|---|
| Benzoic acid, 4-hydroxy-, methyl ester | Methyl p-hydroxybenzoate / Benzoate, 4-hydroxy-, methyl / Methyl 4-hydroxybenzoate / Methyl ester of p-hydroxybenzoic acid / Methylparaben / Benzoic acid, p-hydroxy-, methyl ester / 4- Hydroxybenzoic acid, methyl ester / METHYLPARABEN / Methyl para-hydroxybenzoate / Methyl paraben | (CAS-No.) 99-76-3 | 0.1 | Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Comb. Dust |
| Sodium hydroxide | Caustic soda / Sodium hydroxide (Na(OH)) / SODIUM HYDROXIDE / LYE | (CAS-No.) 1310-73-2 | < 0.1 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |
| Hydrochloric acid | Hydrogen chloride / Muriatic acid / HYDROCHLORIC ACID / Hydrochloric acid, anhydrous | (CAS-No.) 7647-01-0 | < 0.1 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401 |
| Propyl 4- hydroxybenzoate | Benzoic acid, 4-hydroxy-, propyl ester / Benzoic acid, p-hydroxy-, propyl ester / n-Propyl p-hydroxybenzoate / Propyl p-hydroxybenzoate / Propylparaben / 4-Hydroxybenzoic acid, propyl ester / PROPYLPARABEN / Propyl parahydroxybenzoate / n-Propylparaben | (CAS-No.) 94-13-3 | 0.04 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 Comb. Dust |

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).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.

First-aid Measures After Eye Contact: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for at least 15 minutes. Obtain medical attention.

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: Skin sensitization.

Symptoms/Injuries After Inhalation: Prolonged exposure may cause irritation. **Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

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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: Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical. **Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

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.

Hazardous Combustion Products: Nitrous fumes. Carbon oxides (CO, CO₂). Chlorine compounds.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapor, mist, spray). Do not get in eyes, on skin, or on clothing.

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. **Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. 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

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.

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.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Storage Temperature: Store at 20° to 25°C (68° to 77°F); excursions permitted to 15° to 30°C (59° to 86°F) (See USP Controlled Room Temperature).

7.3. Specific End Use(s)

Severe essential hypertension when the drug cannot be given orally or when there is an urgent need to lower blood pressure.

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).

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| 1,2-Propanediol (57-55-6) | | | |
|---------------------------|------------------------------|--|--|
| USA AIHA | WEEL TWA (mg/m³) | 10 mg/m³ | |
| Sodium hydr | Sodium hydroxide (1310-73-2) | | |
| USA ACGIH | ACGIH Ceiling (mg/m³) | 2 mg/m³ | |
| USA NIOSH | NIOSH REL (ceiling) (mg/m³) | 2 mg/m³ | |
| USA IDLH | US IDLH (mg/m³) | 10 mg/m³ | |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 2 mg/m³ | |
| Hydrochloric | acid (7647-01-0) | | |
| USA ACGIH | ACGIH Ceiling (ppm) | 2 ppm | |
| USA ACGIH | ACGIH chemical category | Not Classifiable as a Human Carcinogen | |
| USA NIOSH | NIOSH REL (ceiling) (mg/m³) | 7 mg/m³ | |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 5 ppm | |
| USA IDLH | US IDLH (ppm) | 50 ppm | |
| USA OSHA | OSHA PEL (Ceiling) (mg/m³) | 7 mg/m³ | |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 5 ppm | |

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.

Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles.







Materials for Protective Clothing

Hand Protection Eye and Face Protection Skin and Body Protection

Respiratory Protection

Other Information

: Chemically resistant materials and fabrics.

: Wear protective gloves. : Chemical safety goggles.

: Wear suitable protective clothing.

: 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.

When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties 9.1.

Physical State

Appearance : Clear, colorless to slightly yellow Odor Characteristic odor of parabens

Odor Threshold : No data available

рΗ : 3.4 - 4.4

Evaporation Rate No data available **Melting Point** : No data available **Freezing Point** : No data available **Boiling Point** : No data available **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 Solubility : No data available : No data available **Partition Coefficient: N-Octanol/Water** Viscosity : No data available

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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: Not expected to decompose under ambient conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified

| Acute Toxicity (Illinaiation). Not classified | | |
|--|--------------|--|
| 1(2H)-Phthalazinone, hydrazone, monohydrochloride (304-20-1) | | |
| LD50 Oral Rat | 280 mg/kg | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| LD50 Oral Rat | 2100 mg/kg | |
| Propyl 4-hydroxybenzoate (94-13-3) | | |
| LD50 Oral Rat | > 5000 mg/kg | |
| 1,2-Propanediol (57-55-6) | | |
| LD50 Oral Rat | 20 g/kg | |
| LD50 Dermal Rabbit | 20800 mg/kg | |
| Sodium hydroxide (1310-73-2) | | |
| LD50 Oral Rat | 325 mg/kg | |
| Hydrochloric acid (7647-01-0) | | |
| LD50 Dermal Rabbit | > 5010 mg/kg | |

Skin Corrosion/Irritation: Not classified

pH: 3.4 - 4.4

Serious Eye Damage/Irritation: Not classified

pH: 3.4 - 4.4

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified **Carcinogenicity:** Not classified

| 1(2H)-Phthalazinone, hydrazone, monohydrochloride (304-20-1) | | |
|--|---|--|
| IARC group 3 | | |
| Hydrochloric acid (7647-01-0) | | |
| IARC group | 3 | |

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: Prolonged exposure may cause irritation. Symptoms/Injuries After Skin Contact: May cause an allergic skin reaction. 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.

| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
|--|-----------|--|
| LC50 Fish 1 59.5 mg/l (Exposure time: 96 h - Species: Oryzias latipes) | | |
| EC50 Daphnia 1 | 11.2 mg/l | |

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| ErC50 (Algae) | 91 mg/l | |
|------------------------------------|--|--|
| NOEC Chronic Crustacea | 0.2 mg/l (Species: Daphnia magna) | |
| NOEC Chronic Algae | 20 mg/l | |
| Propyl 4-hydroxybenzoate (94-13-3) | | |
| LC50 Fish 1 | 4.1 (4.1 - 8.8) mg/l (Exposure time: 96 h - Species: Danio rerio) | |
| EC50 Daphnia 1 | 7.97 (7.97 - 32.3) mg/l | |
| NOEC Chronic Algae | 2.1 mg/l | |
| 1,2-Propanediol (57-55-6) | | |
| LC50 Fish 1 | 51600 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) | |
| EC50 Daphnia 1 | 10000 mg/l (Exposure time: 24 h - Species: Daphnia magna) | |
| LC50 Fish 2 | 41 - 47 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) | |
| EC50 Daphnia 2 | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) | |
| Sodium hydroxide (1310-73-2) | | |
| LC50 Fish 1 | 45.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) | |
| EC50 Daphnia 1 | 40 mg/l | |
| Hydrochloric acid (7647-01-0) | | |
| LC50 Fish 1 | 7.45 mg/l (Species: Oncorhynchus mykiss - Exposure time: 96h) | |

12.2. Persistence and Degradability

| Hydralazine Hydrochloride Injection, USP | | |
|--|--|--|
| Persistence and Degradability Not established. | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Persistence and Degradability Readily biodegradable, according to appropriate OECD test. | | |

12.3. Bioaccumulative Potential

| 22.01 Diodocamandire i otential | | |
|--|-------|--|
| Hydralazine Hydrochloride Injection, USP | | |
| Bioaccumulative Potential Not established. | | |
| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | |
| Bioconcentration Factor (BCF REACH) 6.4 | | |
| Log Pow | 1.98 | |
| 1,2-Propanediol (57-55-6) | | |
| BCF Fish 1 | <1 | |
| Log Pow | -0.92 | |

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

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 release to 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

| Hydralazine Hydrochloride Injection, USP | | |
|---|--|--|
| SARA Section 311/312 Hazard Classes Health hazard - Respiratory or skin sensitization | | |
| 1(2H)-Phthalazinone, hydrazone, monohydrochloride (304-20-1) | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |

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| Benzoic acid, 4-hydroxy-, methyl ester (99-76-3) | | | |
|---|---|--|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| Propyl 4-hydroxybenzoate (94-13-3) | | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory | | |
| 1,2-Propanediol (57-55-6) | | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory | | |
| Sodium hydroxide (1310-73-2) | | | |
| Listed on the United States TSCA (Toxic Substances Contr | ol Act) inventory | | |
| CERCLA RQ 1000 lb | | | |
| Hydrochloric acid (7647-01-0) | Hydrochloric acid (7647-01-0) | | |
| Listed on the United States TSCA (Toxic Substances Contr | Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| Listed on the United States SARA Section 302 | | | |
| Subject to reporting requirements of United States SARA Section 313 | | | |
| 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) | | |
| Water (Injection purposes) (7732-18-5) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |

15.2. US State Regulations

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

Hydrochloric acid (7647-01-0)

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

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

Date of Preparation or Latest Revision : 07/08/2020

Other Information : 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:

| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Comb. Dust | Combustible Dust |
| 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. 1A | Skin corrosion/irritation Category 1A |

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| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
|---------------|---|
| Skin Sens. 1 | Skin sensitization, Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H290 | May be corrosive to metals |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |
| 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.

SDS US (GHS HazCom)

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