

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous

Products Regulation (February 11, 2015).

Revision Date: 02/04/2019 Date of Issue: 10/15/2015 Supersedes Date: 05/18/2018 Version: 2.1

## **SECTION 1: IDENTIFICATION**

1.1. Product Identifier

**Product Form:** Mixture

Product Name: QuantideX® RT Enzyme Mix

**Product Reference #: 145435** 

1.2. Recommended Use of the Chemical and Restrictions on Use

Lab Reagents.

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

Company

Asuragen, Inc.

2150 Woodward Ave Suite 100

Austin, TX 78744 T: +1 512-681-5200

USA, Toll-free T: +1 877-777-1874 E-mail: support@asuragen.com Web address: www.asuragen.com

1.4. Emergency Telephone Number

Emergency Number : Tel: +1 -512-681-5200 US, Toll-free Tel: 1-877-777-1874

## **SECTION 2: HAZARDS IDENTIFICATION**

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

**GHS-US/CA Classification** 

Not classified

#### 2.2. Label Elements

#### **GHS-US/CA Labeling**

No labeling applicable

#### 2.3. Other Hazards

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

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

No data available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

## 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name   | Product Identifier  | % *   | GHS Ingredient Classification             |
|--|---------------------|-------|---|
| Glycerin                                     | (CAS-No.) 56-81-5   | 50.00 | Not classified                            |
| Water  | (CAS-No.) 7732-18-5 | 48.46 | Not classified                            |
| Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3- | (CAS-No.) 9002-93-1 | 0.50  | Acute Tox. 4 (Oral), H302                 |
| tetramethylbutyl)phenyl]omegahydroxy-        |                     |       | Skin Irrit. 2, H315                       |
|  |                     |       | Eye Dam. 1, H318                          |
|  |                     |       | Aquatic Acute 2, H401                     |
|  |                     |       | Aquatic Chronic 2, H411                   |
| 1,3-Propanediol, 2-amino-2-                  | (CAS-No.) 77-86-1   | 0.30  | Skin Irrit. 2, H315                       |
| (hydroxymethyl)-                             |                     |       | Eye Irrit. 2, H319                        |
|  |                     |       | STOT SE 3, H335                           |
|  |                     |       | Comb. Dust                                |
| Glycine, N,N'-1,2-ethanediylbis[N-           | (CAS-No.) 6381-92-6 | 0.01  | Acute Tox. 4 (Oral), H302                 |
| (carboxymethyl)-, disodium salt, dihydrate   |                     |       | Acute Tox. 4 (Dermal), H312               |
|  |                     |       | Acute Tox. 4 (Inhalation:dust,mist), H332 |
|  |                     |       | Skin Irrit. 2, H315                       |

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|   |                     |      | Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 Comb. Dust |
|---|---------------------|------|---|
| Sodium chloride                           | (CAS-No.) 7647-14-5 | 0.58 | Not classified  |
| 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- | (CAS-No.) 3483-12-3 | 0.15 | Acute Tox. 4 (Oral), H302   |
|   |                     |      | Skin Irrit. 2, H315   |
|   |                     |      | Eye Irrit. 2, H319  |
|   |                     |      | STOT SE 3, H335   |
|   |                     |      | Comb. Dust  |

Full text of H-phrases: see section 16

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. Description of 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).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**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.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

General: Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** May cause slight irritation to eyes. **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 (CO<sub>2</sub>), 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**: Carbon oxides (CO, CO<sub>2</sub>). Glycerin decomposes to produce corrosive fumes of Acrolein. Acrid smoke and irritating fumes.

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<sup>\*</sup>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%).

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#### **Reference to Other Sections**

Refer to Section 9 for flammability properties.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 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.

#### 7.3. Specific End Use(s)

Lab Reagents.

## **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), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Glycerin (56-81-5)    |                        |                                     |
|-----------------------|------------------------|-------------------------------------|
| Mexico                | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
| USA OSHA              | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (mist, total particulate)  |
|                       |                        | 5 mg/m³ (mist, respirable fraction) |
| Alberta               | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
| British Columbia      | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
|                       |                        | 3 mg/m³ (mist-respirable)           |
| New Brunswick         | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
| Nunavut               | OEL STEL (mg/m³)       | 20 mg/m³ (mist)                     |
| Nunavut               | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
| Northwest Territories | OEL STEL (mg/m³)       | 20 mg/m³ (mist)                     |
| Northwest Territories | OEL TWA (mg/m³)        | 10 mg/m³ (mist)                     |
| Québec                | VEMP (mg/m³)           | 10 mg/m³ (mist)                     |

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| Saskatchewan | OEL STEL (mg/m³) | 20 mg/m³ (mist) |
|--------------|------------------|-----------------|
| Saskatchewan | OEL TWA (mg/m³)  | 10 mg/m³ (mist) |
| Yukon        | OEL TWA (mg/m³)  | 30 mppcf (mist) |
|              |                  | 10 mg/m³ (mist) |

#### 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: Chemically resistant materials and fabrics.

Information on Basic Physical and Chemical Properties

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

**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.

9.1.

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

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

|   | •              |
|---|----------------|
| : | Liquid         |
| : | Not available  |
| : | Not applicable |
| : | Not 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.

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**10.6. Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Glycerin decomposes to produce corrosive fumes of Acrolein.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified
Acute Toxicity (Dermal): Not classified
Acute Toxicity (Inhalation): Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Not classified
Eye Damage/Irritation: Not classified

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation. **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.

## 11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| Poly(oxy-1,2-ethanediyl), .alpha[4-{1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1)           LD50 Oral Rat         1800 mg/kg           LD50 Oral Rat         5900 mg/kg           LD50 Dermal Rat         > 5000 mg/kg           Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)         1050 Oral Rat           LD50 Oral Rat         2000 mg/kg           ATE US/CA (dermal)         1,100.00 mg/kg body weight           ATE US/CA (dust, mist)         1.50 mg/l/4h           Sodium chloride (7647-14-5)         1.50 mg/l/4h           LD50 Oral Rat         3 g/kg           LD50 Dermal Rabbit         > 10000 mg/kg (Species: New Zealand White)           LC50 Inhalation Rat         > 42 g/m³ (Exposure time: 1 h)           2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)         500.00 mg/kg body weight           ATE US/CA (oral)         500.00 mg/kg body weight           Glycerin (56-81-5)         12600 mg/kg           LD50 Dermal Rabbit         > 10 g/kg           LC50 Inhalation Rat         > 570 mg/m³ (Exposure time: 1 h)  |   |  |  |
|--|---|--|--|
| 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)   LD50 Oral Rat   5900 mg/kg     LD50 Dermal Rat   > 5000 mg/kg     Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)     LD50 Oral Rat   2000 mg/kg     ATE US/CA (dermal)   1,100.00 mg/kg body weight     ATE US/CA (dust, mist)   1.50 mg/l/4h     Sodium chloride (7647-14-5)     LD50 Oral Rat   3 g/kg     LD50 Dermal Rabbit   > 10000 mg/kg (Species: New Zealand White)     LC50 Inhalation Rat   > 42 g/m³ (Exposure time: 1 h)     2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)     ATE US/CA (oral)   500.00 mg/kg body weight     Glycerin (56-81-5)     LD50 Oral Rat   12600 mg/kg     LD50 Dermal Rabbit   > 10 g/kg  | Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1) |  |  |
| LD50 Oral Rat   5900 mg/kg      | LD50 Oral Rat   | 1800 mg/kg                                 |  |
| LD50 Dermal Rat   > 5000 mg/kg   | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)   |  |  |
| Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)  LD50 Oral Rat 2000 mg/kg  ATE US/CA (dermal) 1,100.00 mg/kg body weight  ATE US/CA (dust, mist) 1.50 mg/l/4h  Sodium chloride (7647-14-5)  LD50 Oral Rat 3 g/kg  LD50 Dermal Rabbit > 10000 mg/kg (Species: New Zealand White)  LC50 Inhalation Rat > 42 g/m³ (Exposure time: 1 h)  2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)  ATE US/CA (oral) 500.00 mg/kg body weight  Glycerin (56-81-5)  LD50 Oral Rat 12600 mg/kg  LD50 Dermal Rabbit > 10 g/kg  | LD50 Oral Rat   | 5900 mg/kg                                 |  |
| LD50 Oral Rat       2000 mg/kg         ATE US/CA (dermal)       1,100.00 mg/kg body weight         ATE US/CA (dust, mist)       1.50 mg/l/4h         Sodium chloride (7647-14-5)         LD50 Oral Rat       3 g/kg         LD50 Dermal Rabbit       > 10000 mg/kg (Species: New Zealand White)         LC50 Inhalation Rat       > 42 g/m³ (Exposure time: 1 h)         2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)       500.00 mg/kg body weight         ATE US/CA (oral)       500.00 mg/kg body weight         Glycerin (56-81-5)       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg  | LD50 Dermal Rat   | > 5000 mg/kg                               |  |
| ATE US/CA (dermal) ATE US/CA (dust, mist)  Sodium chloride (7647-14-5)  LD50 Oral Rat  LD50 Dermal Rabbit  LC50 Inhalation Rat  2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)  ATE US/CA (oral)  Glycerin (56-81-5)  LD50 Oral Rat  1,100.00 mg/kg body weight  3 g/kg  LD50 mg/kg (Species: New Zealand White)  > 42 g/m³ (Exposure time: 1 h)  500.00 mg/kg body weight  12600 mg/kg body weight  12600 mg/kg  LD50 Dermal Rabbit  > 10 g/kg   | Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodiur                                  | n salt, dihydrate (6381-92-6)              |  |
| ATE US/CA (dust, mist)       1.50 mg/l/4h         Sodium chloride (7647-14-5)         LD50 Oral Rat       3 g/kg         LD50 Dermal Rabbit       > 10000 mg/kg (Species: New Zealand White)         LC50 Inhalation Rat       > 42 g/m³ (Exposure time: 1 h)         2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)         ATE US/CA (oral)       500.00 mg/kg body weight         Glycerin (56-81-5)       12600 mg/kg         LD50 Oral Rat       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg  | LD50 Oral Rat   | 2000 mg/kg                                 |  |
| Sodium chloride (7647-14-5)  LD50 Oral Rat  Solum chloride (7647-14-5)  LD50 Dermal Rabbit  Solum chloride (7647-14-5)  LD50 Dermal Rabbit  Solum chloride (7647-14-5)  So | ATE US/CA (dermal)  | 1,100.00 mg/kg body weight                 |  |
| LD50 Oral Rat       3 g/kg         LD50 Dermal Rabbit       > 10000 mg/kg (Species: New Zealand White)         LC50 Inhalation Rat       > 42 g/m³ (Exposure time: 1 h)         2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)         ATE US/CA (oral)       500.00 mg/kg body weight         Glycerin (56-81-5)         LD50 Oral Rat       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg  | ATE US/CA (dust, mist)  | 1.50 mg/l/4h                               |  |
| LD50 Dermal Rabbit > 10000 mg/kg (Species: New Zealand White)  LC50 Inhalation Rat > 42 g/m³ (Exposure time: 1 h)  2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)  ATE US/CA (oral) 500.00 mg/kg body weight  Glycerin (56-81-5)  LD50 Oral Rat 12600 mg/kg  LD50 Dermal Rabbit > 10 g/kg   | Sodium chloride (7647-14-5)   |  |  |
| LC50 Inhalation Rat       > 42 g/m³ (Exposure time: 1 h)         2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)         ATE US/CA (oral)       500.00 mg/kg body weight         Glycerin (56-81-5)       12600 mg/kg         LD50 Oral Rat       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg   | LD50 Oral Rat   | 3 g/kg                                     |  |
| 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)         ATE US/CA (oral)       500.00 mg/kg body weight         Glycerin (56-81-5)         LD50 Oral Rat       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg  | LD50 Dermal Rabbit  | > 10000 mg/kg (Species: New Zealand White) |  |
| ATE US/CA (oral)         500.00 mg/kg body weight           Glycerin (56-81-5)         12600 mg/kg           LD50 Oral Rat         12600 mg/kg           LD50 Dermal Rabbit         > 10 g/kg  | LC50 Inhalation Rat   | > 42 g/m³ (Exposure time: 1 h)             |  |
| Glycerin (56-81-5)           LD50 Oral Rat         12600 mg/kg           LD50 Dermal Rabbit         > 10 g/kg  | 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)   |  |  |
| LD50 Oral Rat       12600 mg/kg         LD50 Dermal Rabbit       > 10 g/kg   | ATE US/CA (oral)  | 500.00 mg/kg body weight                   |  |
| LD50 Dermal Rabbit > 10 g/kg   | Glycerin (56-81-5)  |  |  |
|  | LD50 Oral Rat   | 12600 mg/kg                                |  |
| LC50 Inhalation Rat > 570 mg/m³ (Exposure time: 1 h)   | LD50 Dermal Rabbit  | > 10 g/kg                                  |  |
|  | LC50 Inhalation Rat   | > 570 mg/m³ (Exposure time: 1 h)           |  |

## **SECTION 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

Ecology - General: Not classified.

| Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1) |        |
|---|--------|
| LC50 Fish 1   | 3 mg/l |
| Sodium chloride (7647-14-5)   |        |

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| LC50 Fish 1        | 5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-       |
|--------------------|--|
|                    | through])  |
| EC50 Daphnia 1     | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                 |
| LC50 Fish 2        | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                 |
| EC50 Daphnia 2     | 340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])       |
| NOEC Chronic Fish  | 252 mg/l (Species: Pimephales promelas)  |
| Glycerin (56-81-5) |  |
| LC50 Fish 1        | 54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

#### 12.2. Persistence and Degradability

| QuantideX® RT Enzyme Mix      |                  |
|-------------------------------|------------------|
| Persistence and Degradability | Not established. |

#### 12.3. Bioaccumulative Potential

| 12.3. Dioaccamalative i otential                      |   |  |
|---|---|--|
| QuantideX® RT Enzyme Mix                              |   |  |
| Bioaccumulative Potential                             | Not established.                                  |  |
| 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1) |   |  |
| BCF Fish 1  | 3 (Estimated using a regression-derived equation) |  |
| Sodium chloride (7647-14-5)                           |   |  |
| BCF Fish 1  | (no bioaccumulation)                              |  |
| Glycerin (56-81-5)                                    |   |  |
| BCF Fish 1  | (no bioaccumulation)                              |  |
| Log Pow   | -1.76   |  |

## **12.4. Mobility in Soil** Not 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

**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
 14.4. In Accordance with TDG Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

## 15.1. US Federal Regulations

| Poly(oxy-1,2-ethanediyl), .alpha[4-(1,1,3,3-tetramethylbutyl)phenyl]omegahydroxy- (9002-93-1) |   |
|---|---|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                     |   |
| EPA TSCA Regulatory Flag  | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
| 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                     |   |
| Sodium chloride (7647-14-5)   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                     |   |
| 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory                     |   |

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#### Glycerin (56-81-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. US State Regulations

#### Glycerin (56-81-5)

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

#### 15.3. Canadian Regulations

#### Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy- (9002-93-1)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,3-Propanediol, 2-amino-2-(hydroxymethyl)- (77-86-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate (6381-92-6)

Listed on the Canadian DSL (Domestic Substances List)

#### Sodium chloride (7647-14-5)

Listed on the Canadian DSL (Domestic Substances List)

#### 2,3-Butanediol, 1,4-dimercapto-, (R\*,R\*)- (3483-12-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Glycerin (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

#### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

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

**Date of Preparation or Latest** 

Revision

: 02/04/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products

Regulations (HPR) SOR/2015-17.

## **GHS Full Text Phrases:**

| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal) Category 4                               |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                 |
| 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                     |
| Skin Irrit. 2                       | Skin corrosion/irritation Category 2                             |
| STOT SE 3                           | Specific target organ toxicity (single exposure) Category 3      |
| H302                                | Harmful if swallowed   |
| H312                                | Harmful in contact with skin                                     |
| H315                                | Causes skin irritation   |
| H318                                | Causes serious eye damage  |

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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

| H319 | Causes serious eye irritation                     |
|------|---|
| H332 | Harmful if inhaled                                |
| 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.

NA GHS SDS 2015 (Can, US, Mex)

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