

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Solution

Product Name: Multitrace® 5 (Trace Elements Injection 5, USP), Multitrace® 5 Concentrate (Trace Elements Injection 5, USP)

Product Code: NDC: 0517-8510-25; 0517-8201-25; 0517-8210-25

1.2. Intended Use of the Product

Use of the substance/mixture: Indicated for use as a supplement to intravenous solutions given for TPN. Administration of the solution in TPN solutions helps to maintain plasma levels of zinc, copper, manganese, chromium and selenium and to prevent depletion of endogenous stores of these trace elements and subsequent deficiency symptoms.

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

Company

Luitpold Pharmaceuticals, Inc.

Ome Luitpold Drive

P.O. Box 9001

Shirley, NY 11967

1-800-645-1706

www.luitpold.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

GHS-US classification

Skin Corr. 1A H314

Eye Dam. 1 H318

Aquatic Acute 2 H401

Aquatic Chronic 2 H411

Full text of H-phrases: see section 16

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

H401 - Toxic to aquatic life.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements (GHS-US)

: P260 - Do not breathe vapors, mist, or spray.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.

P273 - Avoid release to the environment.

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

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

P321 - Specific treatment (see section 4 on this SDS).

P363 - Wash contaminated clothing before reuse.

Multitrac[®] 5 (Trace Elements Injection 5, USP), Multitrac[®] 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

2.3. Other Hazards

Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders. These products should not be given undiluted by direct injection into a peripheral vein because of the potential for infusion phlebitis. Exposure to this product may result in dizziness, lethargy, poor coordination, electrolyte imbalances, renal and hepatic damage, dehydration, abdominal pain, nausea, vomiting, diarrhea, hair loss, depression, and dermatitis. Refer to package insert for more information.

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 | Product Identifier | % | GHS-US classification |
|-------------------------------|---------------------|-------------------|--|
| Water | (CAS No) 7732-18-5 | 96.3 - 98.5 | Not classified |
| Zinc sulfate heptahydrate | (CAS No) 7446-20-0 | 0.4 - 2.2 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Benzyl alcohol | (CAS No) 100-51-6 | ≤ 0.9 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:vapor), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401 |
| Cupric sulfate pentahydrate | (CAS No) 7758-99-8 | 0.2 - 0.4 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Manganese sulfate monohydrate | (CAS No) 10034-96-5 | 0.03 - 0.15 | STOT RE 2, H373 Aquatic Chronic 2, H411 |
| Selenious acid | (CAS No) 7783-00-8 | 0.003 - 0.01 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Chromic chloride hexahydrate | (CAS No) 10060-12-5 | 0.002 - 0.005 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| Sulfuric acid | (CAS No) 7664-93-9 | Used to adjust pH | Skin Corr. 1A, H314 Eye Dam. 1, H318 Carc. 1A, H350 Aquatic Acute 3, H402 |

Multitrac[®] 5 (Trace Elements Injection 5, USP), Multitrac[®] 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | | | |
|------------------|--------------------|-------------------|---|
| Sodium hydroxide | (CAS No) 1310-73-2 | Used to adjust pH | Met. Corr. 1, H290 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 |
|------------------|--------------------|-------------------|---|

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 attention (show the label where possible). In the event of accidental injection, immediately call a poison center and seek medical attention.

First-aid Measures After Inhalation: Go into open air and ventilate suspected area. Seek medical attention.

First-aid Measures After Skin Contact: Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Seek medical attention immediately if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes severe skin burns and eye damage. When handling in workplace settings, in quantities that are most likely above the therapeutic dose, this product may be harmful if absorbed through the eyes, skin, or respiratory tract. Exposure to this product may result in dizziness, lethargy, poor coordination, electrolyte imbalances, renal and hepatic damage, dehydration, abdominal pain, nausea, vomiting, diarrhea, hair loss, depression, and dermatitis. Refer to package insert for more information.

Symptoms/Injuries After Inhalation: Contact may cause immediate severe irritation progressing quickly to chemical burns.

Symptoms/Injuries After Skin Contact: Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Potent pharmaceutical- ingestion may be harmful or have adverse effects.

Chronic Symptoms: May be toxic to lungs, kidneys, liver, and skin.

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

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: A heavy water stream may spread burning liquid. CAUTION: Carbon dioxide is an asphyxiant. Lack of oxygen can be fatal.

5.2. Special Hazards Arising From the Substance or Mixture

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire. Do not breathe fumes from fires or vapors from decomposition. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Firefighters must use full bunker gear including NIOSH-approved positive-pressure self-contained breathing apparatus to protect against potential hazardous combustion and decomposition products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all unnecessary exposure. Do not breathe vapor or mist.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE). Refer to section 8.2.

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection. For further information refer to section 8: Exposure Controls/Personal Protection.

Emergency Procedures: Ventilate area.

Multitrace® 5 (Trace Elements Injection 5, USP), Multitrace® 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods for Cleaning Up: Vacuum spillage with a vacuum cleaner having a high efficiency particulate (HEPA) filter, or absorb liquid with clay absorbent, absorbent pads or paper towels. Use plastic tools to scoop up, sweep or containerize spilled material. Use plastic drums to contain spilled materials. Wipe working surfaces to dryness, and then wash with soap and water.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. For further information refer to Section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: When handling pharmaceutical products, avoid all contact and inhalation of vapor, mist, spray. Do not mix with other drugs. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, well-ventilated place at 20° - 25°C (68° - 77°F) away from direct sunlight and incompatible materials.

Incompatible Products: Strong oxidizers. Strong bases. Strong acids. Magnesium. Nitromethane. Acetylene. Hydroxylamine. Ammonia.

7.3. Specific End Use(s) - Pharmaceutical

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).

| Benzyl alcohol (100-51-6) | | |
|------------------------------|--|---|
| USA AIHA | WEEL TWA (ppm) | 10 ppm |
| Sulfuric acid (7664-93-9) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.2 mg/m ³ (thoracic fraction) |
| USA ACGIH | ACGIH chemical category | Suspected Human Carcinogen contained in strong inorganic acid mists |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 15 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 1 mg/m ³ |
| Sodium hydroxide (1310-73-2) | | |
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 2 mg/m ³ |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 2 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 10 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 2 mg/m ³ |

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment

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



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: Chemical safety goggles.

Multitrac[®] 5 (Trace Elements Injection 5, USP), Multitrac[®] 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Skin and Body Protection : Wear suitable protective clothing. Wash contaminated clothing before reuse.
Respiratory Protection : In case of inadequate ventilation wear respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : 8201 and 8210: Clear, blue solution
8510: Clear, colorless to slightly blue solution
Odor : 8210 and 8510: Odor of Benzyl Alcohol
8201: Odorless
Odor Threshold : No data available
pH : 1.5 - 3.5
Evaporation Rate : No data available
Melting Point : No data available
Freezing Point : No data available
Boiling Point : No data available
Flash Point : Not applicable
Auto-ignition Temperature : No data available
Decomposition Temperature : No data available
Flammability (solid, gas) : No data available
Vapor Pressure : No data available
Relative Vapor Density at 20 °C : No data available
Relative Density : No data available
Specific Gravity : Approximately 1.0
Solubility : Freely soluble in water
Partition Coefficient: N-Octanol/Water : No data available
Viscosity : No data available

9.2. Other Information

VOC content : ≤ 0.9 % (Benzyl Alcohol used as a preservative)

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. High or low temperatures. Incompatible materials.
10.5. Incompatible Materials: Strong oxidizers. Strong bases. Strong acids. Magnesium. Nitromethane. Acetylene. Hydroxylamine. Ammonia.
10.6. Hazardous Decomposition Products: Thermal decomposition generates: Carbon oxides (CO, CO₂). Metal oxides. Sulfur oxides. Toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

| | |
|--|--------------------------|
| Zinc sulfate heptahydrate (7446-20-0) | |
| LD50 Oral Rat | 1260 mg/kg |
| Cupric sulfate pentahydrate (7758-99-8) | |
| LD50 Oral Rat | 960 mg/kg |
| LD50 Dermal Rat | > 2 g/kg |
| Chromic chloride hexahydrate (10060-12-5) | |
| LD50 Oral Rat | 1870 mg/kg |
| Selenious acid (7783-00-8) | |
| ATE (Oral) | 100.00 mg/kg body weight |
| ATE (Gases) | 700.00 ppmV/4h |

Multitrace® 5 (Trace Elements Injection 5, USP), Multitrace® 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------------------------------------|--|
| ATE (Vapors) | 3.00 mg/l/4h |
| ATE (Dust/Mist) | 0.50 mg/l/4h |
| Benzyl alcohol (100-51-6) | |
| LD50 Oral Rat | 1230 mg/kg |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat | > 4.178 mg/l/4h |
| LC50 Inhalation Rat | 8.9 mg/l/4h |
| LC50 Inhalation Rat | > 5.4 mg/l/4h |
| Sulfuric acid (7664-93-9) | |
| LD50 Oral Rat | 2140 mg/kg |
| LC50 Inhalation Rat | 510 mg/m ³ (Exposure time: 2 h) |
| Sodium hydroxide (1310-73-2) | |
| LD50 Dermal Rabbit | 1350 mg/kg |

Skin Corrosion/Irritation: Causes severe skin burns and eye damage. (pH: 1.5 - 3.5)

Serious Eye Damage/Irritation: Causes serious eye damage. (pH: 1.5 - 3.5)

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified.

| | |
|---|---|
| Sulfuric acid (7664-93-9) | |
| IARC group | 1 |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

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: Contact may cause immediate severe irritation progressing quickly to chemical burns. Sore throat. Cough. Burning sensation.

Symptoms/Injuries After Skin Contact: Causes severe skin burns. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

Symptoms/Injuries After Ingestion: Potent pharmaceutical- ingestion may be harmful or have adverse effects.

Chronic Symptoms: May be toxic to lungs, kidneys, liver, and skin.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General

: This material is hazardous to the aquatic environment. Keep out of sewers and waterways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

| | |
|--|--|
| Zinc sulfate heptahydrate (7446-20-0) | |
| EC50 Daphnia 1 | 0.068 ml/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Daphnia 2 | 0.15 - 0.5 (Exposure time: 48 h - Species: Daphnia magna) |
| NOEC chronic fish | <= 0.0749 mg/l (Zinc) |
| Cupric sulfate pentahydrate (7758-99-8) | |
| LC50 Fish 1 | 0.66 (0.66 - 1.15) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static]) |
| EC50 Daphnia 1 | 0.147 (0.147 - 0.227) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| LC 50 Fish 2 | 0.96 (0.96 - 1.8) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [Static]) |
| Benzyl alcohol (100-51-6) | |
| LC50 Fish 1 | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 1 | 23 mg/l (Exposure time: 48 h - Species: water flea) |
| LC 50 Fish 2 | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| ErC50 (algae) | 770 mg/l |

Multitrace® 5 (Trace Elements Injection 5, USP), Multitrace® 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-------------------------------------|---|
| Sulfuric acid (7664-93-9) | |
| LC50 Fish 1 | 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| LC 50 Fish 2 | 42 mg/l (Exposure time: 96 h - Species: Gambusia affinis [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 |

12.2. Persistence and Degradability

| | |
|---|------------------|
| Multitrace 5 (Trace Elements Injection 5, USP), Multitrace 5 Concentrate (Trace Elements Injection 5, USP) | |
| Persistence and Degradability | Not established. |

12.3. Bioaccumulative Potential

| | |
|---|------------------|
| Multitrace 5 (Trace Elements Injection 5, USP), Multitrace 5 Concentrate (Trace Elements Injection 5, USP) | |
| Bioaccumulative Potential | Not established. |

| | |
|----------------------------------|----------------------|
| Benzyl alcohol (100-51-6) | |
| Log Pow | 1.1 |
| Sulfuric acid (7664-93-9) | |
| BCF fish 1 | (no bioaccumulation) |

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

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Contaminated sharps should be 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 Safe Syringe Disposal Program.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (Zinc sulfate heptahydrate, Copper Sulfate)

Hazard Class : 9

Identification Number : UN3082

Label Codes : 9

Packing Group : III

Marine Pollutant : Marine pollutant

ERG Number : 171



14.2. In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate heptahydrate, Copper Sulfate)

Hazard Class : 9

Identification Number : UN3082

Packing Group : III

Label Codes : 9

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-F

Marine Pollutant : Marine pollutant



14.3. In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc sulfate heptahydrate, Copper Sulfate)

Multitrace[®] 5 (Trace Elements Injection 5, USP), Multitrace[®] 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Packing Group : III
Identification Number : UN3082
Hazard Class : 9
Label Codes : 9
ERG Code (IATA) : 9L



SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

| | |
|---|--|
| Multitrace 5 (Trace Elements Injection 5, USP), Multitrace 5 Concentrate (Trace Elements Injection 5, USP) | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Zinc sulfate heptahydrate (7446-20-0) | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Selenious acid (7783-00-8) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on the United States SARA Section 302 | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | ≤ 10000 |
| Benzyl alcohol (100-51-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Sulfuric acid (7664-93-9) | |
| 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 | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 1000 |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard |
| SARA Section 313 - Emission Reporting | 1.0 % (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size) |
| Water (7732-18-5) | |
| 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 | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |

15.2 US State Regulations

| | |
|---|--|
| Sulfuric acid (7664-93-9) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Selenious acid (7783-00-8) | |
| 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 | |
| Benzyl alcohol (100-51-6) | |
| U.S. - Massachusetts - Right To Know List | |
| U.S. - Pennsylvania - RTK (Right to Know) List | |
| Sulfuric acid (7664-93-9) | |
| 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 | |
| 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 | |

Multitrace® 5 (Trace Elements Injection 5, USP), Multitrace® 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

U.S. - Pennsylvania - RTK (Right to Know) List

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

Revision Date : 11/06/2015
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 (Inhalation) | Acute toxicity (inhalation) Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:vapor) | Acute toxicity (inhalation:vapor) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| 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 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Carc. 1A | Carcinogenicity Category 1A |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Met. Corr. 1 | Corrosive to metals Category 1 |
| Repr. 2 | Reproductive toxicity Category 2 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H227 | Combustible liquid |
| 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 |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H350 | May cause cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |

Multitrace[®] 5 (Trace Elements Injection 5, USP), Multitrace[®] 5 Concentrate (Trace Elements Injection 5, USP)

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Refer to Luitpold/American Regent prescribing information for further information at:
<http://www.americanregent.com/AllProducts.aspx>

The information above is believed to be accurate and represents the best information currently available to American Regent. The information has not been verified and we cannot, therefore, guarantee its accuracy or completeness or adequacy for all persons and situations or as to the results to be obtained by use of the information. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. WE MAKE NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR USE OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. Users should make their own investigations to determine the suitability of the information for their own particular purposes. The user assumes all risks from use of the product. In no event shall Luitpold, its subsidiaries, its affiliates and its contractors be liable for any claims, losses or damages of any third party, or for lost profits, or for any special, indirect, incidental, consequential or exemplary damages however arising, even if Luitpold has been advised of the possibility of such damages.

SDS US (GHS HazCom)