



The following SDS references the products below:

*Kolorsafe Liquid Base Neutralizer*

*Vendor Item Number: 4300 Series*

Manufactured By:

*NPS Corporation*

Distributed by Kimball Midwest with the KM product-  
identification number:

*83-2316*

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Mixture**Product Name:** Kolorsafe Liquid Base Neutralizer**Product Code:** 4300 Series**1.2. Intended Use of the Product**

Neutralize Acid/Base for Cleanup. For Professional Use Only.

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

FyterTech Nonwovens

2121-B American Boulevard

De Pere, WI 54115

800-615-8699

web: [www.liquidsafety.com](http://www.liquidsafety.com)email: [cs@fytertech.com](mailto:cs@fytertech.com)**1.4. Emergency Telephone Number****Emergency Number** : (800) 424-9300 (USA); +1 (703) 527-3887 (International and Maritime) CHEMTREC**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US/CA Classification**

Eye Irrit. 2A H319

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

**2.2. Label Elements****GHS-US/CA Labeling****Hazard Pictograms (GHS-US/CA)**

GHS07

**Signal Word (GHS-US/CA)**

: Warning

**Hazard Statements (GHS-US/CA)**

: H319 - Causes serious eye irritation.

**Precautionary Statements (GHS-US/CA)**

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice/attention.

**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        | Synonyms   | Product Identifier | % *   | GHS Ingredient Classification     |
|-------------|--|--------------------|-------|-----------------------------------|
| Citric acid | Citric acid, anhydrous / 2-Hydroxy-1,2,3-propanetricarboxylic acid / 1,2,3-Propanetricarboxylic acid, 2-hydroxy- / CITRIC ACID | (CAS-No.) 77-92-9  | 79.71 | Eye Irrit. 2A, H319<br>Comb. Dust |

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|                 |  |                     |      |                |
|-----------------|--|---------------------|------|----------------|
|                 | / 2-Hydroxypropane-1,2,3-tricarboxylic acid  |                     |      |                |
| Water           | AQUA / Aqua  | (CAS-No.) 7732-18-5 | 14.5 | Not classified |
| Triethanolamine | Ethanol, 2,2',2''-nitrilotri- / Ethanol, 2,2',2''-nitrilotris- / 2,2',2''-Nitrilotriethanol / TEA / Tris(2-hydroxyethyl)amine / TRIETHANOLAMINE / Tris(hydroxyethyl)amine / Trolamine / Tri(2-hydroxyethyl)amine | (CAS-No.) 102-71-6  | 5.69 | Not classified |

Full text of H-phrases: see section 16

\*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%).

## 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:** Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Immediately rinse with water for at least 15 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:** Causes serious eye irritation.

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

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

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**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. Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

**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:** Nitrogen oxides. Carbon oxides (CO, CO<sub>2</sub>).

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### 5.4. 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 all contact with skin, eyes, or 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

**Additional Hazards When Processed:** Contains substances that are combustible dusts. If dried and allowed to accumulate, may form combustible dust concentrations in air that could ignite and cause an explosion. Take appropriate precautions.

**Precautions for Safe Handling:** Avoid contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. 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:** Oxidizers. Bases.

### 7.3. Specific End Use(s)

Neutralize Acid/Base for Cleanup. For Professional Use Only.

## 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), or Canadian provincial governments.

| Triethanolamine (102-71-6) |                                |                      |
|----------------------------|--------------------------------|----------------------|
| USA ACGIH                  | ACGIH TWA (mg/m <sup>3</sup> ) | 5 mg/m <sup>3</sup>  |
| Alberta                    | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| British Columbia           | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| Manitoba                   | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| New Brunswick              | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| Newfoundland & Labrador    | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| Nova Scotia                | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |
| Nunavut                    | OEL STEL (mg/m <sup>3</sup> )  | 10 mg/m <sup>3</sup> |
| Nunavut                    | OEL TWA (mg/m <sup>3</sup> )   | 5 mg/m <sup>3</sup>  |

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|                       |                               |                       |
|-----------------------|-------------------------------|-----------------------|
| Northwest Territories | OEL STEL (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>  |
| Northwest Territories | OEL TWA (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup>   |
| Ontario               | OEL TWA (mg/m <sup>3</sup> )  | 3.1 mg/m <sup>3</sup> |
| Ontario               | OEL TWA (ppm)                 | 0.5 ppm               |
| Prince Edward Island  | OEL TWA (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup>   |
| Québec                | VEMP (mg/m <sup>3</sup> )     | 5 mg/m <sup>3</sup>   |
| Saskatchewan          | OEL STEL (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>  |
| Saskatchewan          | OEL TWA (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup>   |

### 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:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**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.

**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                             | : Red                  |
| Odor                                   | : Ammonia              |
| Odor Threshold                         | : Not available        |
| pH                                     | : 2.2                  |
| Evaporation Rate                       | : Not available        |
| Melting Point                          | : Not available        |
| Freezing Point                         | : Not available        |
| Boiling Point                          | : 102.7 °C (216.86 °F) |
| Flash Point                            | : Did not flash        |
| Auto-ignition Temperature              | : Not available        |
| Decomposition Temperature              | : Not available        |
| Flammability (solid, gas)              | : Not applicable       |
| Lower Flammable Limit                  | : Not available        |
| Upper Flammable Limit                  | : Not available        |
| Vapor Pressure                         | : Not available        |
| Relative Vapor Density at 20°C         | : Not available        |
| Relative Density                       | : Not available        |
| Specific Gravity                       | : 1.143                |
| Solubility                             | : Soluble              |
| Partition Coefficient: N-Octanol/Water | : Not available        |
| Viscosity                              | : Not available        |

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Viscosity, Kinematic : 2.6 cSt  
VOC content : < 1 %

## 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:** Oxidizers. Bases.
- 10.6. **Hazardous Decomposition Products:** None expected under normal conditions of use.

## 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

**pH:** 2.2

**Eye Damage/Irritation:** Causes serious eye irritation.

**pH:** 2.2

**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:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**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:**

|                                   |              |
|-----------------------------------|--------------|
| <b>Citric acid (77-92-9)</b>      |              |
| LD50 Oral Rat                     | 5400 mg/kg   |
| LD50 Dermal Rat                   | > 2000 mg/kg |
| <b>Triethanolamine (102-71-6)</b> |              |
| LD50 Oral Rat                     | 6400 mg/kg   |
| LD50 Dermal Rabbit                | > 2000 mg/kg |
| <b>Triethanolamine (102-71-6)</b> |              |
| IARC Group                        | 3            |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General:** Not classified.

|                                   |   |
|-----------------------------------|---|
| <b>Citric acid (77-92-9)</b>      |   |
| LC50 Fish 1                       | 1516 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)                        |
| <b>Triethanolamine (102-71-6)</b> |   |
| LC50 Fish 1                       | 10600 (10600 - 13000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow- |

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|                        |   |
|------------------------|---|
|                        | through])   |
| EC50 Daphnia 1         | 1386 mg/l   |
| LC50 Fish 2            | 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 (algae)          | 169 mg/l  |
| NOEC Chronic Crustacea | 16 mg/l   |

### 12.2. Persistence and Degradability

|                                   |                                 |
|-----------------------------------|---------------------------------|
| Kolorsafe Liquid Base Neutralizer |                                 |
| Persistence and Degradability     | Not established.                |
| Citric acid (77-92-9)             |                                 |
| Persistence and Degradability     | Readily biodegradable in water. |

### 12.3. Bioaccumulative Potential

|                                   |                  |
|-----------------------------------|------------------|
| Kolorsafe Liquid Base Neutralizer |                  |
| Bioaccumulative Potential         | Not established. |
| Citric acid (77-92-9)             |                  |
| Log Pow                           | -1.72 (at 20 °C) |
| Triethanolamine (102-71-6)        |                  |
| BCF Fish 1                        | 3.9              |
| Log Pow                           | -2.53            |

### 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 waste material in accordance with all local, regional, national, provincial, territorial 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

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

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|   |  |
|---|--|
| Kolorsafe Liquid Base Neutralizer   |  |
| SARA Section 311/312 Hazard Classes                                       | Health hazard - Serious eye damage or eye irritation |
| Citric acid (77-92-9)   |  |
| 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 |  |
| Triethanolamine (102-71-6)  |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

### 15.2. US State Regulations

|  |  |
|--|--|
| Triethanolamine (102-71-6)                                 |  |
| U.S. - Massachusetts - Right To Know List                  |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List |  |

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

### 15.3. Canadian Regulations

#### Citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### Triethanolamine (102-71-6)

Listed on the Canadian DSL (Domestic Substances List)

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

**Date of Preparation or Latest** : 04/06/2021

### Revision

**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:

|               |   |
|---------------|---|
| Comb. Dust    | Combustible Dust                              |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| H319          | Causes serious eye irritation                 |

*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)