

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/7/2024 Version: 1.0

| SECTION 1: Identification   |  |
|---|--|
| 1.1. Identification   |  |
| Product form<br>Product name<br>Product code  | : Mixture<br>: BREAKTHROUGH+<br>: 667  |
| 1.2. Recommended use and restrictions on  | use  |
| Recommended use<br>Restrictions on use  | : Laundry<br>: For professional use only   |
| 1.3. Supplier   |  |
| UNX-Christeyns, LLC<br>707 E Arlington Blvd.<br>Greenville, NC 27858<br>USA<br>T 252-756-8616 / 800.869.6171<br>www.unxchristeyns.com - info@unxchristeyns.com  |  |
| 1.4. Emergency telephone number   |  |
| Emergency number  | <ul> <li>VELOCITY EHS (800) 255-3924 (24 HOURS)</li> <li>(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)</li> </ul>  |
|   |  |
| SECTION 2: Hazard(s) identification<br>2.1. Classification of the substance or mixt   | ure  |
|   | ure  |
| 2.1. Classification of the substance or mixt  | ure<br>H318 Causes serious eye damage  |
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| 2.1. Classification of the substance or mixt<br>GHS US classification<br>Serious eye damage/eye irritation Category 1<br>Full text of H statements : see section 16   | H318 Causes serious eye damage   |
| <ul> <li>2.1. Classification of the substance or mixt</li> <li>GHS US classification</li> <li>Serious eye damage/eye irritation Category 1</li> <li>Full text of H statements : see section 16</li> <li>2.2. GHS Label elements, including precaut</li> <li>GHS US labeling</li> </ul>  | H318 Causes serious eye damage   |
| 2.1. Classification of the substance or mixt<br>GHS US classification<br>Serious eye damage/eye irritation Category 1<br>Full text of H statements : see section 16<br>2.2. GHS Label elements, including precaut<br>GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)                                      | H318       Causes serious eye damage         tionary statements         :       image         :       Danger         :       H318 - Causes serious eye damage         :       P280 - Wear protective gloves/protective clothing/eye protection/face 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.         :       P310 - Immediately call a poison center or doctor. |
| 2.1. Classification of the substance or mixt<br>GHS US classification<br>Serious eye damage/eye irritation Category 1<br>Full text of H statements : see section 16<br>2.2. GHS Label elements, including precaut<br>GHS US labeling<br>Hazard pictograms (GHS US)<br>Signal word (GHS US)<br>Hazard statements (GHS US)<br>Precautionary statements (GHS US) | H318       Causes serious eye damage         tionary statements         :       image         :       Danger         :       H318 - Causes serious eye damage         :       P280 - Wear protective gloves/protective clothing/eye protection/face 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.         :       P310 - Immediately call a poison center or doctor. |

#### No additional information available

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### **SECTION 3: Composition/Information on ingredients**

## 3.1. Substances

### Not applicable

#### 3.2. Mixtures

| Name  | Product identifier  | %       |
|---|---------------------|---------|
| Sodium Carbonate  | CAS-No.: 497-19-8   | 30 - 60 |
| Sodium Sulfate Anhydrous  | CAS-No.: 7757-82-6  | 10 – 30 |
| Sodium Chloride   | CAS-No.: 7647-14-5  | 10 – 30 |
| Sodium Percarbonate   | CAS-No.: 15630-89-4 | 5 – 10  |
| Silicic Acid, Sodium Salt   | CAS-No.: 1344-09-8  | 3 – 5   |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and benzenesulfonic acid, 4-<br>methyl-, reaction products with sodium hydroxide | CAS-No.: 68411-30-3 | 1 – 3   |

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

## **SECTION 4: First-aid measures**

| 4.1. Description of first aid measures |  |
|--|--|
| First-aid measures after inhalation    | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact  | : Rinse skin with plenty of water or shower.   |
| First-aid measures after eye contact   | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion     | : Call a poison center/doctor/physician if you feel unwell.  |
| 4.2. Most important symptoms and ef    | fects (acute and delayed)  |
| Symptoms/injuries after eye contact    | : Serious damage to eyes.  |
| 4.3. Immediate medical attention and   | special treatment, if necessary  |

Treat symptomatically.

| SECTION 5: Fire-fighting measures                |  |  |
|--|--|--|
| 5.1. Suitable (and unsuitable) extinguishing     | g media  |  |
| Suitable extinguishing media                     | : Water spray. Dry powder. Foam.   |  |
| 5.2. Specific hazards arising from the chemical  |  |  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.   |  |
| 5.3. Special protective equipment and prec       | autions for fire-fighters  |  |
| Protection during firefighting                   | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |  |

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| SECTION 6: Accidental release measur          | res   |
|---|---|
| 6.1. Personal precautions, protective equip   | ment and emergency procedures   |
| 6.1.1. For non-emergency personnel            |   |
| Emergency procedures                          | : Avoid contact with skin and eyes.   |
| 6.1.2. For emergency responders               |   |
| Protective equipment                          | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions                |   |
| No additional information available           |   |
| 6.3. Methods and material for containment     | and cleaning up   |
| Other information                             | : Dispose of materials or solid residues at an authorized site.   |
| 6.4. Reference to other sections              |   |
| For further information refer to section 13.  |   |
| SECTION 7: Handling and storage               |   |
| 7.1. Precautions for safe handling            |   |
| Precautions for safe handling                 | : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.  |
| Hygiene measures                              | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.   |
| 7.2. Conditions for safe storage, including a | any incompatibilities   |
| Storage conditions                            | : Store in a dry place. Store in a closed container.  |

### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

#### Eye protection:

Safety glasses

| SECTION 9: Physical a     | nd chemical properties           |  |
|---------------------------|----------------------------------|--|
| 9.1. Information on basic | physical and chemical properties |  |
| Physical state            | : Solid                          |  |

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| Color                                       | : | White / blue      |
|---|---|-------------------|
| Odor  | : | No data available |
| Odor threshold                              | : | No data available |
| рН  | : | 10.9 (1%)         |
| Melting point                               | : | No data available |
| Freezing point                              | : | Not applicable    |
| Boiling point                               | : | No data available |
| Flash point                                 | : | Not applicable    |
| Relative evaporation rate (butyl acetate=1) | : | No data available |
| Flammability (solid, gas)                   | : | Non flammable.    |
| Vapor pressure                              | : | No data available |
| Relative vapor density at 20°C              | : | No data available |
| Relative density                            | : | No data available |
| Density                                     | : | 1.09 g/ml         |
| Solubility                                  | : | No data available |
| Log Pow                                     | : | No data available |
| Autoignition temperature                    | : | Not applicable    |
| Decomposition temperature                   | : | No data available |
| Viscosity, kinematic                        | : | Not applicable    |
| Viscosity, dynamic                          | : | No data available |
| Explosion limits                            | : | Not applicable    |
| Explosive properties                        | : | No data available |
| Oxidizing properties                        | : | No data available |
|   |   |                   |

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials** 

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

| SECTION 11: Toxicological information      |  |
|--|--|
| 11.1. Information on toxicological effects |  |
|  |  |

Acute toxicity (oral)

: Not classified

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| cute toxicity (dermal)   | : Not classified<br>: Not classified   |
|--|--|
| Sodium Carbonate (497-19-8)                                    |  |
| LD50 oral rat  | 2800 mg/kg body weight Animal: rat   |
| LD50 oral  | 4090 mg/kg body weight   |
| LD50 dermal rabbit   | > 2000 mg/kg body weight Animal: rabbit, Guideline: other:   |
| LD50 dermal  | > 2000 mg/kg body weight   |
| LC50 Inhalation - Rat (Dust/Mist)                              | 1.2 mg/l Source: SIDS  |
| ATE US (oral)  | 2800 mg/kg body weight   |
| ATE US (dust, mist)  | 1.2 mg/l/4h  |
| Sodium Percarbonate (15630-89-4)                               |  |
| LD50 oral  | 1034 mg/kg body weight   |
| LD50 dermal rabbit   | > 2000 mg/kg body weight Animal: rabbit, Guideline: other:   |
| LD50 dermal  | > 2000 mg/kg body weight   |
| ATE US (oral)  | 1034 mg/kg body weight   |
| Sodium Sulfate Anhydrous (7757-82-6                            | ;) ·   |
| LD50 oral rat  | > 10000 mg/kg Source: OECD Screening Information Data Set  |
| LD50 oral  | > 2000 mg/kg body weight   |
| LC50 Inhalation - Rat  | > 2.4 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute<br>Toxic Class Method) |
| Benzenesulfonic acid, 4-C10-13-sec-a<br>hydroxide (68411-30-3) | Ikyl derivs. and benzenesulfonic acid, 4-methyl-, reaction products with sodium                                    |
| ATE US (oral)  | 500 mg/kg body weight  |
| Skin corrosion/irritation                                      | : Not classified<br>pH: 10.9 (1%)  |
| Serious eye damage/irritation                                  | : Causes serious eye damage.   |
|  | pH: 10.9 (1%)  |
| Respiratory or skin sensitization                              | : Not classified   |
| Serm cell mutagenicity   | : Not classified<br>: Not classified   |
| Carcinogenicity  | : Not classified   |
| Reproductive toxicity<br>GTOT-single exposure                  | : Not classified   |
| •  |  |
| TOT-repeated exposure  | : Not classified   |
| Aspiration hazard  | : Not classified   |
| /iscosity, kinematic   | : Not applicable   |
| Symptoms/injuries after eye contact                            | : Serious damage to eyes.  |

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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| Sodium Carbonate (497-19-8)          |   |  |
|--------------------------------------|---|--|
| LC50 - Fish [1]                      | 300 mg/l Test organisms (species): Lepomis macrochirus      |  |
| EC50 - Crustacea [1]                 | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.   |  |
| EC50 - Other aquatic organisms [1]   | 265 mg/l waterflea  |  |
| EC50 - Crustacea [2]                 | 200 – 227 mg/l Test organisms (species): Ceriodaphnia sp.   |  |
| EC50 96h - Algae [1]                 | 242 mg/l Source: ECOTOX                                     |  |
| Sodium Percarbonate (15630-89-4)     |   |  |
| LC50 - Fish [1]                      | 70.7 mg/l Source: EPA guideline, SIDS                       |  |
| EC50 - Crustacea [1]                 | 4.9 mg/l Test organisms (species): Daphnia pulex            |  |
| EC50 - Other aquatic organisms [1]   | 4.9 mg/l waterflea  |  |
| ErC50 algae                          | > 7.7 mg/l Source: SIDS                                     |  |
| Sodium Sulfate Anhydrous (7757-82-6) |   |  |
| LC50 - Fish [1]                      | 7960 mg/l Source: OECD Screening Information Data Set       |  |
| EC50 - Crustacea [1]                 | ≈ 3150.21 mg/l Test organisms (species): Ceriodaphnia dubia |  |
| EC50 - Other aquatic organisms [1]   | 4580 mg/l waterflea   |  |
| LC50 - Fish [2]                      | ≈ 7960 mg/l Test organisms (species): Pimephales promelas   |  |
| EC50 - Other aquatic organisms [2]   | 1900 mg/l   |  |
| 12.2. Persistence and degradability  |   |  |
| BREAKTHROUGH+                        |   |  |
| Persistence and degradability        | No data available.  |  |

| · · · · · · · · · · · · · · · · · · ·  |  |  |
|--|--|--|
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and benzenesulfonic acid, 4-methyl-, reaction products with sodium hydroxide (68411-30-3) |  |  |
| Persistence and degradability  | Not rapidly degradable                                 |  |
| Silicic Acid, Sodium Salt (1344-09-8)  |  |  |
| Persistence and degradability  | Not rapidly degradable                                 |  |
| 12.3. Bioaccumulative potential  |  |  |
| Sodium Carbonate (497-19-8)  |  |  |
| Log Pow  | -6.19 Source: Quantitative Structure Activity Relation |  |
| Sodium Sulfate Anhydrous (7757-82-6)   |  |  |
| Log Pow  | -3 Source: OECD Screening Information Data Set         |  |
| 12.4. Mobility in soil   |  |  |
| No additional information available  |  |  |
| 12.5. Other adverse effects  |  |  |

No additional information available

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| SECTION 13: Disposal considerations |   |
|-------------------------------------|---|
| 13.1. Disposal methods              |   |
| Regional legislation (waste)        | : Do not allow the product to contaiminate any body of water. Refer to Section 8 for personal protection equipment.   |
| Waste treatment methods             | : Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers. |

| SECTION 14: Transport information       |   |
|---|---|
| In accordance with DOT                  |   |
| 14.1. UN number                         |   |
| Not regulated for transport             |   |
| 14.2. UN proper shipping name           |   |
| Proper Shipping Name (DOT)              | : Not regulated                           |
| 14.3. Transport hazard class(es)        |   |
| DOT<br>Transport hazard class(es) (DOT) | : Not regulated                           |
| 14.4. Packing group                     |   |
| Packing group (DOT)                     | : Not regulated                           |
| 14.5. Environmental hazards             |   |
| Other information                       | : No supplementary information available. |
| 14.6. Special precautions for user      |   |
| DOT<br>Not regulated                    |   |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name  | CAS-No.    | Listing     | Commercial status | Flags |
|---|------------|-------------|-------------------|-------|
| Sodium Carbonate  | 497-19-8   | Present     | Active            |       |
| Sodium Percarbonate   | 15630-89-4 | Present     | Active            |       |
| Sodium Sulfate Anhydrous  | 7757-82-6  | Present     | Active            |       |
| Sodium Chloride   | 7647-14-5  | Not present | -                 |       |
| Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and<br>benzenesulfonic acid, 4-methyl-, reaction products<br>with sodium hydroxide | 68411-30-3 | Not present | -                 |       |

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| Name                      | CAS-No.   | Listing | Commercial status | Flags |
|---------------------------|-----------|---------|-------------------|-------|
| Silicic Acid, Sodium Salt | 1344-09-8 | Present | Active            |       |

15.2. International regulations

No additional information available

15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

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| Full text of H-phra | ases                      |
|---------------------|---------------------------|
| H318                | Causes serious eye damage |

Safety Data Sheet (SDS), USA ML

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.