1. Identification

Product identifier

Product Name Buffer Powder Pills pH 10.01 ± 0.02 @ 25°C

Other means of identification

Product Code(s) 2227166

Recommended use of the chemical and restrictions on use

Recommended Use Buffer.

Details of the supplier of the safety data sheet

Manufacturer Address
Hach Company P.O.Box 389  Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

Emergency Telephone +1(303) 623-5716 - 24 Hour Service

2. Hazards identification

Classification

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 5 - (H303)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Dermal</td>
<td>Category 5 - (H313)</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4 - (H332)</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 3 - (H316)</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A - (H319)</td>
</tr>
</tbody>
</table>

Label elements

Signal word - Warning

Hazard statements
H303 - May be harmful if swallowed
H313 - May be harmful in contact with skin
H316 - Causes mild skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
Precautionary statements
P312 - Call a POISON CENTER or doctor if you feel unwell
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P332 + P313 - If skin irritation occurs: Get medical advice/attention
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
P337 + P313 - If eye irritation persists: Get medical advice/attention

Other Hazards Known
Not applicable

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance</th>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Synonyms</th>
<th>Percent Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate</td>
<td>497-19-8</td>
<td>Sodium Carbonate</td>
<td>50 - 60%</td>
<td></td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>144-55-8</td>
<td>No information available</td>
<td>40 - 50%</td>
<td></td>
</tr>
<tr>
<td>Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium</td>
<td>1330-38-7</td>
<td>No information available</td>
<td>1 - 5%</td>
<td></td>
</tr>
</tbody>
</table>

4. First aid measures

Description of first aid measures

General advice
Show this safety data sheet to the doctor in attendance.

Inhalation
Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. If symptoms persist, call a physician.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact
Wash skin with soap and water.

Ingestion
Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.
Self-protection of the first aider
Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms
Burning sensation. Prolonged contact may cause redness and irritation. Coughing and/or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media
CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical
No information available.

Hazardous combustion products
Sodium monoxide. Carbon monoxide, Carbon dioxide.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

Special protective actions for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust.

Other information
Refer to protective measures listed in Sections 7 and 8.

Environmental precautions
Environmental precautions
See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labeled containers.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.
7. Handling and storage

Precautions for safe handling
Advice on safe handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with
skin, eyes or clothing. Do not eat, drink or smoke when using this product. Avoid breathing

Conditions for safe storage, including any incompatibilities
Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach
of children.

8. Exposure controls/personal protection

Control parameters
Exposure Limits
This product, as supplied, does not contain any hazardous materials with occupational
exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls
Engineering controls
Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/face protection
If splashes are likely to occur, wear safety glasses with side-shields. Wear safety glasses
with side shields (or goggles).

Hand protection
Wear suitable gloves.

Skin and body protection
Wear suitable protective clothing.

Respiratory protection
No protective equipment is needed under normal use conditions. If exposure limits are
exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations
Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do
not eat, drink or smoke when using this product. Avoid breathing
dust/fume/gas/mist/vapors/spray.

9. Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>powder</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Color</td>
<td>light blue</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular weight</td>
<td>No data available</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>10</td>
<td>1% Solution</td>
</tr>
</tbody>
</table>
Melting point/freezing point 160 °C / 320 °F
Boiling point / boiling range No data available
Evaporation rate Not applicable
Vapor pressure Not applicable
Vapor density (air = 1) Not applicable
Specific gravity (water = 1 / air = 1) 2.35
Partition Coefficient (n-octanol/water) log Kow ~ 0
Soil Organic Carbon-Water Partition Coefficient log Koc ~ 0.01
Autoignition temperature No data available
 Decomposition temperature No data available
Dynamic viscosity Not applicable
Kinematic viscosity Not applicable

Solubility(ies)

Water solubility

<table>
<thead>
<tr>
<th>Water solubility classification</th>
<th>Water solubility</th>
<th>Water Solubility Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C / 77 °F</td>
</tr>
</tbody>
</table>

Solubility in other solvents

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Solubility classification</th>
<th>Solubility</th>
<th>Solubility Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid</td>
<td>Soluble</td>
<td>&gt; 1000 mg/L</td>
<td>25 °C / 77 °F</td>
</tr>
</tbody>
</table>

Other Information

Metal Corrosivity

Steel Corrosion Rate Not applicable
Aluminum Corrosion Rate Not applicable

Volatile Organic Compounds (VOC) Content
Not applicable

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Volatile organic compounds (VOC) content</th>
<th>CAA (Clean Air Act)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate</td>
<td>497-19-8</td>
<td>No data available</td>
<td>-</td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>144-55-8</td>
<td>No data available</td>
<td>-</td>
</tr>
<tr>
<td>Cuprate(2-), {29H,31H-phthalocyanine-C,C-disulfo no(4-)N29,N30,N31,N32}- disodium</td>
<td>1330-38-7</td>
<td>No data available</td>
<td>-</td>
</tr>
</tbody>
</table>

Explosive properties

Upper explosion limit No data available
Lower explosion limit No data available
2227166 - Buffer Powder Pillows pH 10.01 ± 0.02 @ 25°C

Revision Date 04-Jan-2019

Flammable properties

Flammability Limit in Air
- Upper flammability limit: No data available
- Lower flammability limit: No data available

Oxidizing properties: No data available.

Flammable properties

- Flash point: Not applicable

10. Stability and reactivity

Reactivity: No information available.

Chemical stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to avoid: Excessive heat.

Incompatible materials: None known based on information supplied.

Hazardous Decomposition Products: Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

11. Toxicological information

Information on Likely Routes of Exposure

Product Information

- Inhalation: May cause irritation of respiratory tract. Harmful by inhalation.
- Eye contact: Causes serious eye irritation. May cause redness, itching, and pain.
- Skin contact: May cause irritation. Prolonged contact may cause redness and irritation. Causes mild skin irritation.
- Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Symptoms: May cause redness and tearing of the eyes. Prolonged contact may cause redness and irritation. Coughing and/ or wheezing.

Acute toxicity
Based on available data, the classification criteria are not met

Product Acute Toxicity Data
No data available.

Ingredient Acute Toxicity Data
Test data reported below.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate (50 - 60%)</td>
<td>Rat LD₅₀</td>
<td>4090 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>IUCLID (The International Uniform Chemical Information)</td>
</tr>
</tbody>
</table>
### Chemical name and Toxicological Effects

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate (50 - 60%) CAS#: 497-19-8</td>
<td>LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>2210 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>No information available</td>
</tr>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>&gt; 5000 mg/kg</td>
<td>None reported</td>
<td>None reported</td>
<td>Vendor SDS</td>
</tr>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>1.15 mg/L</td>
<td>4 hours</td>
<td>None reported</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>&gt; 4.47 mg/L</td>
<td>4 hours</td>
<td>None reported</td>
<td>OECD (Organization for Economic Co-operation and Development) Guideline 429 (Skin Sensitization: Local Lymph Node Assay)</td>
<td></td>
</tr>
</tbody>
</table>

### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

### Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

- **ATE<sub>mix</sub> (oral)**: 4,154.00
- **ATE<sub>mix</sub> (dermal)**: 4,001.00
- **ATE<sub>mix</sub> (inhalation-dust/mist)**: 2.08
- **ATE<sub>mix</sub> (inhalation-vapor)**: No information available
- **ATE<sub>mix</sub> (inhalation-gas)**: No information available

### Skin corrosion/irritation

May cause skin irritation.

### Product Skin Corrosion/Irritation Data

No data available.

### Ingredient Skin Corrosion/Irritation Data

No data available.
**Sodium bicarbonate (40 - 50%)**  
CAS#: 144-55-8

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Test method</th>
<th>Species</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
</table>
| Disodium carbonate (50 - 60%)  
CAS#: 497-19-8 | Standard Draize Test | Rabbit | 100 mg | 24 hours | Eye irritant | HSDB (Hazardous Substances Data Bank) |
| Sodium bicarbonate (40 - 50%)  
CAS#: 144-55-8 | Standard Draize Test | Rabbit | 100 mg | 0.5 minutes | Mild eye irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Respiratory or skin sensitization**  
Based on available data, the classification criteria are not met.

**Product Sensitization Data**  
No data available.

**Ingredient Sensitization Data**  
No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Test method</th>
<th>Species</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
</table>
| Sodium bicarbonate (40 - 50%)  
CAS#: 144-55-8 | Based on human experience | Human | Not confirmed to be a skin sensitizer | No information available |

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Test method</th>
<th>Species</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
</table>
| Sodium bicarbonate (40 - 50%)  
CAS#: 144-55-8 | Based on human experience | Human | Not confirmed to be a respiratory sensitizer | No information available |

**STOT - single exposure**  
Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Single Exposure Data**  
No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**  
No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
</table>
| Sodium bicarbonate (40 - 50%)  
CAS#: 144-55-8 | Infant TDLo | 1260 mg/kg | None reported | Kidney, Ureter, or Bladder  
Urine volume increased  
Lungs, Thorax, or Respiration  
Other changes | RTECS (Registry of Toxic Effects of Chemical Substances) |

**STOT - repeated exposure**  
Based on available data, the classification criteria are not met.
Product Specific Target Organ Toxicity Repeat Dose Data
No data available.

Ingredient Specific Target Organ Toxicity Repeat Exposure Data
No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate (40 - 50%)</td>
<td>Man TDLo</td>
<td>20 mg/kg</td>
<td>5 days</td>
<td>Gastrointestinal Nausea or vomiting Metabolic acidosis</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>CAS#: 144-55-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Toxicological effects</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate (40 - 50%)</td>
<td>Rat TCLo</td>
<td>77.2 mg/L</td>
<td>119 days</td>
<td>Blood Changes in serum composition (e.g. TP, bilirubin, cholesterol) Cardiac Other changes Nutritional and Gross Metabolic Changes in sodium</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
<tr>
<td>CAS#: 144-55-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity
Based on available data, the classification criteria are not met.

Product Carcinogenicity Data
No data available.

Ingredient Carcinogenicity Data
No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate</td>
<td>497-19-8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>144-55-8</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Cuprate(2-), [29H,31H-phthalocyanine-C,C-disulfonato(4-)-N29,N30,N31,N32]-, disodium</td>
<td>1330-38-7</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) Does not apply
IARC (International Agency for Research on Cancer) Does not apply
NTP (National Toxicology Program) Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of Labor) Does not apply

Germ cell mutagenicity
Based on available data, the classification criteria are not met.

Product Germ Cell Mutagenicity invitro Data
No data available.

Ingredient Germ Cell Mutagenicity invitro Data
No data available.

Product Germ Cell Mutagenicity invivo Data
No data available.
Ingredient Germ Cell Mutagenicity *in vivo* Data

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Test</th>
<th>Species</th>
<th>Reported dose</th>
<th>Exposure time</th>
<th>Results</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>Unscheduled DNA synthesis</td>
<td>Rat</td>
<td>50400 mg/kg</td>
<td>4 weeks</td>
<td>Positive test result for mutagenicity</td>
<td>RTECS (Registry of Toxic Effects of Chemical Substances)</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Product Reproductive Toxicity Data**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity**

**Unknown aquatic toxicity**

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

**Product Ecological Data**

**Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Ingredient Ecological Data**

**Aquatic Acute Toxicity**

No data available.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Exposure time</th>
<th>Species</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate (50 - 60%) CAS#: 497-19-8</td>
<td>96 hours</td>
<td><em>Lepomis macrochirus</em></td>
<td>LC₅₀</td>
<td>300 mg/L</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>96 hours</td>
<td><em>Lepomis macrochirus</em></td>
<td>LC₅₀</td>
<td>7100 mg/L</td>
<td>PEEN (Pan European Ecological Network)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Exposure time</th>
<th>Species</th>
<th>Endpoint type</th>
<th>Reported dose</th>
<th>Key literature references and sources for data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disodium carbonate (50 - 60%) CAS#: 497-19-8</td>
<td>48 Hours</td>
<td><em>Daphnia magna</em></td>
<td>EC₅₀</td>
<td>265 mg/L</td>
<td>IUCLID (The International Uniform Chemical Information Database)</td>
</tr>
<tr>
<td>Sodium bicarbonate (40 - 50%) CAS#: 144-55-8</td>
<td>48 Hours</td>
<td><em>Daphnia magna</em></td>
<td>EC₅₀</td>
<td>4100 mg/L</td>
<td>PEEN (Pan European Ecological Network)</td>
</tr>
<tr>
<td>Cuprate(2-),</td>
<td>48 Hours</td>
<td><em>Daphnia pulex</em></td>
<td>LC₅₀</td>
<td>100 mg/L</td>
<td>Estimation through ECOSARS</td>
</tr>
</tbody>
</table>
13. Disposal considerations

Waste treatment methods

Waste from residues/unused products
Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging
Do not reuse empty containers.

14. Transportation information

MEX
Not regulated

Note:
No special precautions necessary.

TDG
Not regulated

U.S. DOT
Not regulated

ICAO (air)
Not regulated

IATA
Not regulated

IMDG
Not regulated

RID
Not regulated

ADR
Not regulated

ADN
Not regulated
Additional information
There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.
If the item is part of a reagent set or kit the classification would change to the following:
UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.
If the item is not regulated, the Chemical Kit classification does not apply.

15. Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations
The Montreal Protocol on Substances that Deplete the Ozone Layer  Not applicable
The Stockholm Convention on Persistent Organic Pollutants  Not applicable
The Rotterdam Convention  Not applicable

International Inventories
<table>
<thead>
<tr>
<th>Inventory</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Complies.</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Complies.</td>
</tr>
<tr>
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<td>AICS</td>
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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

16. Other information

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and chemical properties
HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

Legend
Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value SKN* Skin designation

Key literature references and sources for data used to compile the SDS
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.

Disclaimer
USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet