



Be Right™

SAFETY DATA SHEET

Issue Date 27-Jun-2016

Revision Date 19-Jan-2017

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1. IDENTIFICATION

Product identifier

Product Name Low Range TOC Indicator Ampules

Other means of identification

Product Code(s) 2789510

Safety data sheet number M01742

Synonyms

Recommended use of the chemical and restrictions on use

Recommended Use Indicator. Standard solution.

Uses advised against None.

Restrictions on use None.

Details of the supplier of the safety data sheet

Manufacturer Address

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

Emergency telephone number

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

2. HAZARDS IDENTIFICATION

Classification

Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not Hazardous

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

The product contains no substances which at their given concentration, are considered to be hazardous to health

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Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Synonyms

Chemical Family Mixture.

Percent ranges are used where confidential product information is applicable.

| Chemical Name | CAS No | Percent Range | HMRIC # |
|--------------------------------|-----------|---------------|---------|
| Sodium tetraborate decahydrate | 1303-96-4 | <0.1% | - |
| Sodium hydroxide | 1310-73-2 | <0.1% | - |

4. FIRST AID MEASURES

Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

Ingestion IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

Self-protection of the first aider Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

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.

Flammable properties

Substance does not burn.

Specific hazards arising from the chemical

This product will not burn or explode.

Hazardous combustion products

This material will not burn.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

U.S. Notice

Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

EC Notice

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

WHMIS Notice

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions

Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions

Stop spilled material from being released to the environment. 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. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up

Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number

Not applicable

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Flammability class Not applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|--|--|
| Sodium tetraborate decahydrate <0.1% | STEL: 6 mg/m ³ TWA: 2 mg/m ³ | (vacated) TWA: 10 mg/m ³ | TWA: 5 mg/m ³ |
| Sodium hydroxide <0.1% | Ceiling: 2 mg/m ³ | TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³ |

| Chemical Name | Alberta OEL | British Columbia OEL | Manitoba OEL | New Brunswick OEL | New Foundland & Labrador OEL |
|---|---|---|---|------------------------------|---|
| Sodium tetraborate decahydrate <0.1% | TWA: 1 mg/m ³ STEL: 3 ppm | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | TWA: 5 mg/m ³ | TWA: 2 mg/m ³ STEL: 6 mg/m ³ |
| Sodium hydroxide <0.1% | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

| Chemical Name | Northwest Territories OEL | Nova Scotia OEL | Nunavut OEL | Ontario TWA | Prince Edward Island OEL |
|---|---|---|---|---|---|
| Sodium tetraborate decahydrate <0.1% | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | STEL: 6 mg/m ³ TWA: 2 mg/m ³ | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | STEL: 6 mg/m ³ TWA: 2 mg/m ³ |
| Sodium hydroxide <0.1% | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

| Chemical Name | Quebec OEL | Saskatchewan OEL | Yukon OEL |
|---|------------------------------|---|------------------------------|
| Sodium tetraborate decahydrate <0.1% | TWA: 5 mg/m ³ | TWA: 2 mg/m ³ STEL: 6 mg/m ³ | NDF |
| Sodium hydroxide <0.1% | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ | Ceiling: 2 mg/m ³ |

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Legend See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---------------------------|--|-----------------------|-------------------|
| Physical state | Liquid | | |
| Gas Under Pressure | Not classified according to GHS criteria | | |
| Appearance | aqueous solution | Color | blue |
| Odor | Odorless | Odor threshold | No data available |

| Property | Values | Remarks • Method |
|--|---|---|
| Molecular weight | No data available | |
| pH | 10.15 | |
| Melting point/freezing point | ~ 0 °C / 32 °F | Estimation based on theoretical calculation |
| Boiling point / boiling range | ~ 100 °C / 212 °F | Estimation based on theoretical calculation |
| Evaporation rate | 1 (water = 1) Estimation based on theoretical calculation | |
| Vapor pressure | 24.002 mm Hg / 3.2 kPa at 25 °C / 77 °F | Estimation based on theoretical calculation |
| Vapor density (air = 1) | 0.62 | |
| Specific gravity (water = 1 / air = 1) | 1.01 | Estimation based on theoretical calculation |
| Partition Coefficient (n-octanol/water) | Not applicable | |
| Soil Organic Carbon-Water Partition Coefficient | Not applicable | |
| Autoignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Dynamic viscosity | ~ 1 cP (mPa s) at 20 °C / 68 °F | |
| Kinematic viscosity | ~ 0.99 cSt (mm ² /s) at 20 °C / 68 °F | |

Solubility(ies)

Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Solubility in other solvents

| Chemical Name | Solubility classification | Solubility | Solubility Temperature |
|---------------|---------------------------|------------|------------------------|
| | | | |

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| | | | |
|------|---------|-------------|---------------|
| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F |
|------|---------|-------------|---------------|

Other Information

| | |
|----------------------------------|--|
| Metal Corrosivity | Not classified as corrosive to metal according to GHS criteria |
| Steel Corrosion Rate | No data available |
| Aluminum Corrosion Rate | No data available |
| Bulk density | Not applicable |
| Explosive properties | Not classified according to GHS criteria. |
| Explosion data | No data available |
| Upper explosion limit | No data available |
| Lower explosion limit | No data available |
| Flammable properties | Not classified as flammable according to GHS criteria. |
| Flammability Limit in Air | |
| Upper flammability limit: | No data available |
| Lower flammability limit: | No data available |
| Flash point | No data available |
| Method | No information available |
| Oxidizing properties | Not classified according to GHS criteria. |
| Reactivity properties | Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria. |

10. STABILITY AND REACTIVITY

Reactivity properties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

Chemical stability

Stable under recommended storage conditions.

Special dangers of the product

None reported

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible materials.

Incompatible materials

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Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None known based on information supplied.

Explosive properties

Not classified according to GHS criteria.

Upper explosion limit No data available

Lower explosion limit No data available

Autoignition temperature

No data available

Sensitivity to Static Discharge

None reported

Sensitivity to Mechanical Impact

None reported

11. TOXICOLOGICAL INFORMATION

NIOSH (RTECS) Number None reported

Information on Likely Routes of Exposure

| | |
|--|---|
| Product Information | Product does not present an acute toxicity hazard based on known or supplied information. |
| Inhalation | No known effect based on information supplied. |
| Eye contact | No known effect based on information supplied. |
| Skin contact | No known effect based on information supplied. |
| Ingestion | No known effect based on information supplied. |
| Aggravated Medical Conditions | None known. |
| Toxicologically synergistic products | None known. |
| Toxicokinetics, metabolism and distribution | No information available. |

Product Acute Toxicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Acute Toxicity Data

| Oral Exposure Route | | | | If available, see data below | |
|--------------------------------|----------------------|----------------------|----------------------|------------------------------|---|
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Sodium tetraborate decahydrate | Rat LD ₅₀ | 2660 mg/kg | None reported | None reported | GESTIS (Information System on Hazardous Substances of |

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| (<0.1%) CAS#: 1303-96-4 | | | | | the German Social Accident Insurance) |
|---|-------------------------|---------------|---------------|--|--|
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | Rabbit LD ₅₀ | 500 mg/kg | None reported | None reported | Vendor SDS |
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Man LD _{Lo} | 709 mg/kg | None reported | Behavioral Convulsions or effect on seizure threshold Cardiac Pulse rate Gastrointestinal Nausea or vomiting | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route

If available, see data below

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|-------------------------|---------------|---------------|-----------------------|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rabbit LD ₅₀ | 10000 mg/kg | None reported | None reported | HSDB (Hazardous Substances Data Bank) |
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | Rabbit LD ₅₀ | 1350 mg/kg | None reported | None reported | IUCLID (The International Uniform Chemical Information Database) |

Inhalation (Dust/Mist) Exposure Route

If available, see data below

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|----------------------|---------------|---------------|-----------------------|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rat LC ₅₀ | > 0.002 mg/L | 4 hours | None reported | HSDB (Hazardous Substances Data Bank) |

Inhalation (Vapor) Exposure Route

If available, see data below

Inhalation (Gas) Exposure Route

No data available

Product Skin Corrosion/Irritation Data

No data available.

Ingredient Skin Corrosion/Irritation Data

If available, see data below

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|-------------|---------|---------------|---------------|-------------------|--|
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | Patch test | Human | 20 mg | 24 hours | Corrosive to skin | RTECS (Registry of Toxic Effects of Chemical Substances) |

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

If available, see data below

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|----------------------|---------|---------------|---------------|-------------------|--|
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | Standard Draize Test | Rabbit | 0.05 mg | 24 hours | Corrosive to eyes | RTECS (Registry of Toxic Effects of Chemical Substances) |

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Chronic Toxicity Information

Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route

If available, see data below

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|----------------------|---------------|---------------|---|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rat TD _{Lo} | 70000 mg/kg | 90 days | Brain and Coverings Weight loss Chronic Changes in testicular weight Nutritional and Gross Metabolic Weight loss or decreased weight gain | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rat TD _{Lo} | 18524 mg/kg | 70 days | Blood Other changes Chronic Changes in testicular weight Endocrine Changes in spleen weight | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

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Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

| Chemical Name | CAS No | ACGIH | IARC | NTP | OSHA |
|--------------------------------|-----------|-------|----------|-----|------|
| Sodium tetraborate decahydrate | 1303-96-4 | - | Group 2A | - | X |
| Sodium hydroxide | 1310-73-2 | - | - | - | - |

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 |

Product Carcinogenicity Data No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Carcinogenicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Product Germ Cell Mutagenicity *in vitro* Data

No data available.

Ingredient Germ Cell Mutagenicity *in vitro* Data

If available, see data below

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Germ Cell Mutagenicity *in vivo* Data

Oral Exposure Route

If available, see data below

| Chemical Name | Test | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|----------------------|-------------------------|---------------|---------------|---------------------------------------|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Specific locus test | Drosophila melanogaster | 795 mg/L | None reported | Positive test result for mutagenicity | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Chemical Name | Test | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Cytogenetic analysis | Drosophila melanogaster | 795 mg/L | None reported | Positive test result for mutagenicity | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Oral Exposure Route

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Reproductive Toxicity Data

Oral Exposure Route

If available, see data below

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|----------------------|---------------|---------------|---|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rat TD _{Lo} | 70000 mg/kg | 90 days | Paternal Effects Epididymis Fallopian tubes Ovaries Sperm duct testes Maternal Effects | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | Rat TD _{Lo} | 37 mg/kg | None reported | Effects on Newborn Weaning or lactation index (e.g. # alive at weaning per # alive at day 4) | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity Based on the classification principles, not classified as hazardous to the environment.

Product Ecological Data

Aquatic toxicity

Fish No data available

Crustacea No data available

Algae No data available

Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Ingredient Ecological Data

Aquatic toxicity

Fish If available, see ingredient data below

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|---|---------------|----------------------------|------------------|---------------|--|
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | 96 hours | <i>Oncorhynchus mykiss</i> | LC ₅₀ | 45.4 mg/L | IUCLID (The International Uniform Chemical Information Database) |

Crustacea If available, see ingredient data below

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|---|---------------|----------------------|-----------------------------------|----------------------|--|
| Sodium tetraborate decahydrate (<0.1%) CAS#: 1303-96-4 | 48 Hours | <i>Daphnia magna</i> | EC ₅₀ LC ₅₀ | 141 mg/L >= 141 mg/L | PEEN (Pan European Ecological Network) |
| Sodium hydroxide (<0.1%) CAS#: 1310-73-2 | 48 Hours | <i>Daphnia sp.</i> | EC ₅₀ | 40.4 mg/L | IUCLID (The International Uniform Chemical Information Database) |

Algae If available, see ingredient data below

Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Other Information

Persistence and degradability

None known.

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Product Biodegradability Data

If available, see ingredient data below.

Ingredient Biodegradability Data

Test data reported below

Bioaccumulation

If available, see ingredient data below.

Product Bioaccumulation Data

No data available.

Ingredient Bioaccumulation Data

No data available

Additional information

Product Information

Partition Coefficient (n-octanol/water)

Not applicable

Ingredient Information

Mobility

Mobility in soil: High mobility. If available, see ingredient data below.

Product Information

Soil Organic Carbon-Water Partition Coefficient

Not applicable

Ingredient Information

Additional information

Water solubility

Product Information

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|--|-------------------------|-------------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Ingredient Information

| <u>Chemical Name</u> | <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water solubility temperature °C</u> | <u>Water solubility temperature °F</u> |
|---|--|-------------------------|--|--|
| Sodium tetraborate decahydrate CAS#: 1303-96-4 | Completely soluble | 60000 mg/L | 20 °C | 68 °F |
| Sodium hydroxide CAS#: 1310-73-2 | Completely soluble | 420000 mg/L | 0 °C | 32 °F |

Other adverse effects

Contains a substance with an endocrine-disrupting potential.

13. DISPOSAL CONSIDERATIONS

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Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging Working in a well-ventilated area. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state, or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P.A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Special instructions for disposal If permitted by regulation. Open cold water tap completely, slowly pour the material to the drain. Flush system with plenty of water. Check with national, local municipal and state authorities and waste contractors for pertinent local information on the disposal of this article.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG Not regulated

Note: No special precautions necessary.

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

National Inventories

TSCA Complies
DSL/NDSL Complies

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL- Canadian Domestic Substances List/Non-Domestic Substances List

International Inventories

EINECS/ELINCS Complies
ENCS Does not comply
IECSC Complies
KECL Does not comply
PICCS Does not comply
TCSI Complies
AICS Does not comply
NZIoC Complies

EINECS/ELINCS- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS- Japan Existing and New Chemical Substances

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IECSC- China Inventory of Existing Chemical Substances
 KECL- Korean Existing and Evaluated Chemical Substances
 PICCS- Philippines Inventory of Chemicals and Chemical Substances
 TCSI- Taiwan Chemical Substances Inventory
 AICS- Australian Inventory of Chemical Substances
 NZIoC- New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|----|
| Acute health hazard | No |
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide 1310-73-2 | 1000 lb | - | - | X |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|-------------------------------|--------------------------|----------------|---|
| Sodium hydroxide 1310-73-2 | 1000 lb | - | RQ 1000 lb final RQ RQ 454 kg final RQ |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Sodium tetraborate decahydrate 1303-96-4 | X | X | X |
| Sodium hydroxide 1310-73-2 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Additional information

Global Automotive Declarable Substance List (GADSL)

| Chemical Name | Global Automotive Declarable Substance List Classifications | Global Automotive Declarable Substance List Thresholds |
|---|---|--|
| Sodium tetraborate decahydrate 1303-96-4 | Prohibited Substance (LR) Declarable Substance (LR) | 0.0 % 0.1 % |

Special Comments

None

NFPA and HMIS Classifications

| NFPA | Health hazards - 0 | Flammability - 0 | Instability - 0 | Physical and Chemical Properties - |
|------|--------------------|------------------|----------------------|---|
| HMIS | Health hazards - 0 | Flammability - 0 | Physical hazards - 0 | Personal protection - X - See section 8 for more information |

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH *Immediately Dangerous to Life or Health*
 ACGIH ACGIH (American Conference of Governmental Industrial Hygienists)
 NDF *no data*

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|------|---------------------------------|---------|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| MAC | Maximum Allowable Concentration | Ceiling | Ceiling Limit Value |
| X | Listed | Vacated | These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations. |
| SKN* | Skin designation | SKN+ | Skin sensitization |
| RSP+ | Respiratory sensitization | ** | Hazard Designation |
| C | Carcinogen | R | Reproductive toxicant |
| M | mutagen | | |

Prepared By Hach Product Compliance Department

Issue Date 27-Jun-2016

Revision Date 19-Jan-2017

Revision Note None

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.

Product Code(s) 2789510
Issue Date 27-Jun-2016
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Product Name Low Range TOC Indicator Ampules
Revision Date 19-Jan-2017
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End of Safety Data Sheet

