

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

Page 1/8

Tetrabase®-100

Revision 1
Revision date 2018-11-08

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

| | |
|--------------|----------------|
| Product name | Tetrabase®-100 |
| Product code | 652052 |

1.2. Relevant identified uses of the substance or mixture and uses advised against

| | |
|-------------|--|
| Product Use | [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC35] Washing and cleaning products (including solvent based products); |
| Description | Cleaner. |

1.3. Details of the supplier of the safety data sheet

| | |
|-----------|--|
| Company | Neogen Corporation |
| Address | 620 Leshler Place Lansing MI 48912 USA |
| Web | www.neogen.com |
| Telephone | 517-372-9200/800-234-5333 |
| Email | regulatorysupport@neogen.com |

1.4. Emergency telephone number

| | |
|----------------------------|----------------|
| Emergency telephone number | 1-800-234-5333 |
|----------------------------|----------------|

Further information

| | |
|------------------|---|
| Manufactured By: | Preserve International 944 Nandino Blvd. Lexington, KY 40511-1205 U.S.A. |
| Hotline(s): | Preserve International is a wholly-owned subsidiary of Neogen Corporation. Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887). |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| | |
|-----------------------------|----------------------|
| 2.1.2. Classification - GHS | Skin Corr. 1B: H314; |
|-----------------------------|----------------------|

2.2. Label elements

| | |
|-------------------|---|
| Hazard pictograms |  |
|-------------------|---|

Tetrabase®-100

Revision 1
Revision date 2018-11-08

2.2. Label elements

| | |
|--|--|
| Signal Word | Danger |
| Hazard Statement | Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. |
| Precautionary Statement: Prevention | P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. |
| Precautionary Statement: Response | P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

| Chemical Name | Index No. | CAS No. | EC No. | REACH Registration Number | Conc. (%w/w) | Classification |
|---|--------------|-----------|-----------|---------------------------|--------------|---|
| Organic phosphonate | | | | | 0 - 0.5% | Met. Corr. 1: H290; Skin Irrit. 2: H315; Eye Irrit. 2B: H320; |
| Sodium hydroxide | 011-002-00-6 | 1310-73-2 | 215-185-5 | | 10 - 20% | Skin Corr. 1A: H314; |
| Sodium hypochlorite, solution...% Cl active | 017-011-00-1 | 7681-52-9 | 231-668-3 | | 1 - 10% | EUH031; Skin Corr. 1B: H314; Aquatic Acute 1: H400; |
| Sodium acrylate | | 9003-04-7 | | | 1 - 10% | Eye Irrit. 2: H319; |

Further information

The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|---|
| Inhalation | May cause irritation to respiratory system. Move the exposed person to fresh air. |
| Eye contact | Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Immediate medical attention is required. |
| Skin contact | Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention. |
| Ingestion | DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |

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

| | |
|---------------------|--|
| Inhalation | May cause irritation to respiratory system. |
| Eye contact | Causes severe burns. Risk of serious damage to eyes. |
| Skin contact | Causes severe burns. |
| Ingestion | Causes burns. Ingestion may cause nausea and vomiting. |

4.3. Indication of any immediate medical attention and special treatment needed

Remove the affected person from the source of contamination immediately. If you feel unwell, seek medical advice (show the label where possible). Seek medical attention if irritation or symptoms persist.

SECTION 5: Firefighting measures

Tetrabase®-100

Revision 1
Revision date 2018-11-08

5.1. Extinguishing media

| | |
|--|---|
| | Use extinguishing media appropriate to the surrounding fire conditions. |
|--|---|

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| | Heat will increase pressure in sealed containers. Cool fire exposed containers with waterspray. Burning produces irritating, toxic and obnoxious fumes. |
|--|---|

5.3. Advice for firefighters

| | |
|--|--|
| | In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary. |
|--|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|--|---|
| | Avoid contact with eyes and skin. Wash hands after handling the product. Ensure adequate ventilation of the working area. |
|--|---|

6.2. Environmental precautions

| | |
|--|--|
| | Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. |
|--|--|

6.3. Methods and material for containment and cleaning up

| | |
|--|--|
| | Absorb spillage to prevent material damage. Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. |
|--|--|

6.4. Reference to other sections

| | |
|--|---|
| | See section 2, 8, and 13 for further information. |
|--|---|

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|--|--|
| | Adopt best Manual Handling considerations when handling, carrying and dispensing. Wear suitable gloves and eye/face protection. Avoid contact with eyes, skin or clothing. Wash hands after handling the product. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Ensure adequate ventilation of the working area. |
|--|--|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--|--|
| | Keep only in the original container in a cool, well-ventilated place away from excessive heat or cold. |
|--|--|

7.3. Specific end use(s)

| | |
|--|--|
| | See section 1.2 for further information. |
|--|--|

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limit Values


| | | |
|------------------|---------------------------|---------------------------------------|
| Sodium hydroxide | ACGIH TLV TWA: - | ACGIH TLV STEL: C 2 mg/m ³ |
| | Notations: - | OSHA PEL 8hr TWA ppm: - |
| | OSHA PEL 8hr TWA mg m3: 2 | Skin Designation: - |
| | NIOSH REL 10hr TWA ppm: | NIOSH REL 10hr TWA mg m3: |
| | NIOSH REL 15 min ST ppm: | NIOSH REL 15 min ST mg m3: |

8.2. Exposure controls

Tetrabase®-100

Revision 1
Revision date 2018-11-08

8.2. Exposure controls

| | |
|-----------------------------------|---|
| |  |
| Appropriate engineering controls | Ensure adequate ventilation of the working area. |
| Individual protection measures | Use as appropriate: Protective clothing. |
| Eye / face protection | Wear eye/face protection. |
| Skin protection - Hand protection | Wear suitable gloves. |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment. |
| Occupational exposure controls | Keep away from food, drink and animal feed and/ or feed products. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------|-------------------|
| State | Liquid |
| Color | Clear/Yellow |
| Odor | Chlorine |
| Odour threshold | No data available |
| pH | 11.95 - 13.23 |
| Melting point | No data available |
| Freezing Point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Flammability limits | No data available |
| Vapor pressure | No data available |
| Vapor density | No data available |
| Relative density | No data available |
| Fat Solubility | No data available |
| Partition coefficient | No data available |
| Autoignition temperature | No data available |
| Viscosity | No data available |
| Explosive properties | No data available |
| Oxidising properties | No data available |
| Solubility | No data available |

9.2. Other information

| | |
|------------------|-------------------------------|
| Conductivity | No data available |
| Surface tension | No data available |
| Specific gravity | 1.13 - 1.25 g/cm ³ |
| Gas group | No data available |

SECTION 10: Stability and reactivity

10.1. Reactivity

Tetrabase®-100

Revision 1
Revision date 2018-11-08

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Keep away from incompatible materials.

10.4. Conditions to avoid

Keep away from heat. Heat will increase pressure in sealed containers.

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | Causes burns. |
| Serious eye damage/irritation | Causes burns. |
| Respiratory or skin sensitisation | No sensitization effects reported. |
| Carcinogenicity | Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens. |
| Repeated or prolonged exposure | Avoid prolonged or repeated exposure. |

11.1.4. Toxicological information

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

Partition coefficient

Tetrabase®-100 No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all. local and national regulations.
Do not contaminate water by cleaning of equipment or disposal of wastes.

Tetrabase®-100

Revision 1
Revision date 2018-11-08

Disposal methods

| | |
|--|---|
| | Contact a licensed waste disposal company. Do not contaminate water by cleaning of equipment or disposal of wastes. |
|--|---|

Disposal of packaging

| | |
|--|--|
| | Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling. |
|--|--|

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

| | |
|--|--------|
| | UN1760 |
|--|--------|

14.2. UN proper shipping name

| | |
|--|--|
| | CORROSIVE LIQUID, N.O.S. (Sodium hydroxide solution) |
|--|--|

14.3. Transport hazard class(es)

| | |
|-----------------|---|
| DOT | 8 |
| Subsidiary risk | - |
| IMDG | 8 |
| Subsidiary risk | - |
| IATA | 8 |
| Subsidiary risk | - |

14.4. Packing group

| | |
|---------------|----|
| Packing group | II |
|---------------|----|

14.5. Environmental hazards

| | |
|-----------------------|----|
| Environmental hazards | No |
| Marine pollutant | No |

DOT

| | |
|-----------------|-----|
| Hazard ID | 80 |
| Tunnel Category | (E) |

IMDG

| | |
|----------|---------|
| EmS Code | F-A S-B |
|----------|---------|

IATA

| | |
|---------------------------------|------|
| Packing Instruction (Cargo) | 855 |
| Maximum quantity | 30 L |
| Packing Instruction (Passenger) | 851 |
| Maximum quantity | 1 L |

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Tetrabase®-100

Revision 1
Revision date 2018-11-08

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|--------------------|---|
| Regulations | <p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.</p> <p>US State Regulations: New Jersey Right-to-Know Hazardous Substance List: Sodium hydroxide, Sodium hypochlorite</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: Sodium hydroxide, Sodium hypochlorite.</p> <p>Rhode Island Right-to-Know Hazardous Substance List: Sodium hydroxide, Sodium hypochlorite.</p> |
|--------------------|---|

Inventories

| Ingredient | TSCA | MA | SARA313 | CALPROP65 | CWA307 | CAA112 | CWA311 | SARA302 | SARA304 |
|--|------|----|---------|-----------|--------|--------|--------|---------|---------|
| Sodium hydroxide (Sodium hydroxide (Na(OH))) | Y | N | N | N | N | N | Y | N | N |
| Sodium hypochlorite, solution...% Cl active (Hypochlorous acid, sodium salt) | Y | N | N | N | N | N | Y | N | N |

SECTION 16: Other information

Other information

| | |
|---|--|
| Revision | <p>This document differs from the previous version in the following areas:.</p> <p>1 - Product Use. 2 - 2.1.2. Classification - GHS. 6 - 6.2. Environmental precautions. 9 - 9.1. Information on basic physical and chemical properties (Color). 9 - 9.1. Information on basic physical and chemical properties (PH). 9 - 9.2. Other information (Specific gravity). 10 - 10.5. Incompatible materials. 11 - 11.1.4. Toxicological information. 12 - 12.1. Toxicity. 14 - DOT. 14 - IMDG. 14 - IATA. 15 - Regulations.</p> |
| Text of Hazard Statements in Section 3 | <p>Met. Corr. 1: H290 - May be corrosive to metals. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2B: H320 - Causes eye irritation. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Eye Irrit. 2: H319 - Causes serious eye irritation. EUH031 - Contact with acids liberates toxic gas. Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> |

Further information

| | |
|--|---|
| | <p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it</p> |
|--|---|

Tetrabase®-100

Revision 1
Revision date 2018-11-08

Further information

will make their own determination regarding its suitability for their own unique purpose(s), prior to use.

Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.
