

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name Duracable Urinal Block
Formula Number UB-976

CAS # Mixture

Product use Urinal deodorant

Manufacturer Duracable Mfg.
300 Ashworth Road
West Des Moines, IA 50265 US
Phone: 515-223-1344
Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. Hazards Identification

Emergency overview WARNING
Contains a potential reproductive toxin.
MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation Not a likely route of entry. Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

| Components | CAS # | Percent |
|---------------------------------|-------------|---------|
| Sodium sulfate | 7727-73-3 | 30 - 60 |
| Sodium tetraborate pentahydrate | 12179-04-3 | 15 - 40 |
| Citric acid | 77-92-9 | 7 - 13 |
| Fatty acids, coco, sodium salts | 61789-31-9 | 7 - 13 |
| Sodium dodecylbenzenesulfonate | 25155-30-0 | 3 - 7 |
| Silica, amorphous, fumed | 112926-00-8 | 1 - 5 |

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting. Not a normal route of exposure. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media**Suitable extinguishing media**

Treat for surrounding material.

Unsuitable extinguishing media

Not available

Protection of firefighters**Specific hazards arising from the chemical**

Not available

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of sulfur.

Explosion data**Sensitivity to mechanical impact**

Not available.

Sensitivity to static discharge

Not available.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin and eyes.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

None necessary. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. After removal flush contaminated area thoroughly with water.

7. Handling and Storage

Handling

Use only with adequate ventilation.
 Avoid breathing dust. Avoid contact with eyes. Avoid contact with skin and clothing.
 When using do not eat or drink.
 Wash thoroughly after handling.
 Use good industrial hygiene practices in handling this material.
 Keep container tightly closed.

Storage

Store in a closed container away from incompatible materials.
 Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits**US. ACGIH Threshold Limit Values Components**

Sodium tetraborate pentahydrate (CAS 12179-04-3)

Type

STEL

TWA

Value6 mg/m³2 mg/m³**Form**

Inhalable fraction.

Inhalable fraction.

US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components | Type | Value |
|---|---|---------------------------------------|
| Silica, amorphous, fumed (CAS 112926-00-8) | TWA | 0.8 mg/m ³ 20 mppcf |
| Exposure limits | Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL. | |
| Engineering controls | General ventilation normally adequate. | |
| Personal protective equipment | | |
| Eye / face protection | Wear safety glasses with side shields. | |
| Hand protection | Rubber gloves. Confirm with a reputable supplier first. | |
| Skin and body protection | As required by employer code. | |
| Respiratory protection | Not normally required. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. | |
| General hygiene considerations | Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. | |

9. Physical and Chemical Properties

| | |
|---|--|
| Appearance | Solid |
| Color | Blue, Pink |
| Form | Blocks |
| Odor | Green apple, Cherry, Lemon, Spicy or Potpourri |
| Odor threshold | Not available. |
| Physical state | Solid. |
| pH | Not available. |
| Freezing point | Not available. |
| Boiling point | Not available. |
| Pour point | Not available. |
| Evaporation rate | Not available |
| Flash point | Not available. |
| Auto-ignition temperature | Not available. |
| Flammability limits in air, upper, % by volume | Not available. |
| Flammability limits in air, lower, % by volume | Not available. |
| Vapor pressure | Not available. |
| Vapor density | Not available. |
| Specific gravity | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Solubility (water) | Complete |
| Relative density | Not available. |
| Viscosity | Not available. |
| VOC | Not available |
| Percent volatile | Not available |

10. Stability and Reactivity

| | |
|---|--|
| Reactivity | This product may react with strong oxidizing agents. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Do not mix with other chemicals. |

Incompatible materials
Hazardous decomposition products

Caustics. Acids. Oxidizers.
May include and are not limited to: Oxides of carbon. Oxides of sulfur.

11. Toxicological Information

Toxicological data

| Components | Species | Test Results |
|--|---------------|---------------|
| Citric acid (CAS 77-92-9) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Not available | |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Mouse | 5040 mg/kg |
| | Rat | 3000 mg/kg |
| Fatty acids, coco, sodium salts (CAS 61789-31-9) | | |
| Acute | | |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Not available | |
| Silica, amorphous, fumed (CAS 112926-00-8) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | >= 2000 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Rat | > 2 mg/L |
| <i>Oral</i> | | |
| LD50 | Mouse | > 15000 mg/kg |
| | Rat | > 22500 mg/kg |
| | | 31600 mg/kg |
| Sodium dodecylbenzenesulfonate (CAS 25155-30-0) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rat | 2700 mg/kg |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Rat | 438 mg/kg |
| Sodium sulfate (CAS 7727-73-3) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Not available | |
| <i>Inhalation</i> | | |
| LC50 | Not available | |
| <i>Oral</i> | | |
| LD50 | Mouse | 5989 mg/kg |
| | Rat | > 10000 mg/kg |

| Components | Species | Test Results |
|--|---------|--------------|
| Sodium tetraborate pentahydrate (CAS 12179-04-3) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | > 1055 mg/kg |
| <hr/> | | |
| <i>Inhalation</i> | | |
| LC50 | Rat | 2 mg/l/4h |
| <hr/> | | |
| <i>Oral</i> | | |
| LD50 | Rat | 3305 mg/kg |
| <hr/> | | |
| 2660 mg/kg | | |

Effects of acute exposure

| | |
|------------------------|---|
| Eye contact | May cause irritation. |
| Skin contact | May cause irritation. |
| Inhalation | Not a likely route of entry. Dusts of this product may cause irritation of the nose, throat, and respiratory tract. |
| Ingestion | Not a normal route of exposure. May cause stomach distress, nausea or vomiting. |
| Sensitization | Non-hazardous by WHMIS/OSHA criteria. |
| Chronic effects | Non-hazardous by WHMIS/OSHA criteria. |
| Carcinogenicity | See below. |

ACGIH Carcinogens

Sodium tetraborate pentahydrate (CAS 12179-04-3) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Silica, amorphous, fumed (CAS 112926-00-8) Volume 68 - 3 Not classifiable as to carcinogenicity to humans.

| | |
|---|--|
| Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Reproductive effects | Borates may cause harmful reproductive effects based on animal data. |
| Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Name of Toxicologically Synergistic Products | Not available. |

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

| Components | Species | Test Results |
|---|---------|--|
| Citric acid (CAS 77-92-9) | | |
| <i>Acute</i> | | |
| Crustacea | EC50 | Daphnia magna |
| <hr/> | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Fish | LC50 | Bluegill (Lepomis macrochirus) |
| <hr/> | | |
| Sodium dodecylbenzenesulfonate (CAS 25155-30-0) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) |
| <hr/> | | |
| Fish | LC50 | Rainbow trout, donaldson trout (Oncorhynchus mykiss) |
| <hr/> | | |
| Sodium sulfate (CAS 7727-73-3) | | |
| Aquatic | | |
| Crustacea | EC50 | Water flea (Ceriodaphnia dubia) |
| <hr/> | | |
| Fish | LC50 | Striped bass (Morone saxatilis) |

| Components | Species | Test Results |
|--|---------|---|
| Sodium tetraborate pentahydrate (CAS 12179-04-3) | | |
| Aquatic | | |
| Fish | LC50 | Western mosquitofish (<i>Gambusia affinis</i>) 104 mg/l, 96 hours |

| | |
|--|--------------------------------|
| Persistence and degradability | This product is biodegradable. |
| Bioaccumulation / Accumulation | Not available |
| Mobility in environmental media | Not available. |
| Environmental effects | Not available. |
| Aquatic toxicity | Not available. |
| Partition coefficient | |
| Sodium dodecylbenzenesulfonate | 0.45 |
| Chemical fate information | Not available. |

13. Disposal Considerations

| | |
|--|--|
| Disposal instructions | Dispose in accordance with all applicable regulations. |
| Waste from residues / unused products | Not available |
| Contaminated packaging | Not available |

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

| | |
|---|-----|
| Citric acid (CAS 77-92-9) | 1 % |
| Sodium dodecylbenzenesulfonate (CAS 25155-30-0) | 1 % |

| | |
|-----------------------------|---------------------------|
| WHMIS status | Controlled |
| WHMIS classification | Class D - Division 2A, 2B |
| WHMIS labeling | |



Occupational Safety and Health Administration (OSHA)

| | |
|--|-----|
| 29 CFR 1910.1200 hazardous chemical | Yes |
|--|-----|

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

Sodium dodecylbenzenesulfonate: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Clean Water Act (CWA) Hazardous substance

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Silica, amorphous, fumed (CAS 112926-00-8) Listed.
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - Louisiana Spill Reporting: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - Minnesota Haz Subs: Listed substance

Silica, amorphous, fumed (CAS 112926-00-8) Listed.
Sodium tetraborate pentahydrate (CAS 12179-04-3) Listed.

US - New Jersey RTK - Substances: Listed substance

Silica, amorphous, fumed (CAS 112926-00-8) Listed.
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.
Sodium tetraborate pentahydrate (CAS 12179-04-3) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - Texas Effects Screening Levels: Listed substance

Citric acid (CAS 77-92-9) Listed.
Silica, amorphous, fumed (CAS 112926-00-8) Listed.
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.
Sodium sulfate (CAS 7727-73-3) Listed.
Sodium tetraborate pentahydrate (CAS 12179-04-3) Listed.

US. Massachusetts RTK - Substance List

Silica, amorphous, fumed (CAS 112926-00-8) Listed.
Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.
Sodium sulfate (CAS 7727-73-3) Listed.
Sodium tetraborate pentahydrate (CAS 12179-04-3) Listed.

US. Pennsylvania RTK - Hazardous Substances

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.
Sodium sulfate (CAS 7727-73-3) Listed.
Sodium tetraborate pentahydrate (CAS 12179-04-3) Listed.

US. Rhode Island RTK

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

Inventory status

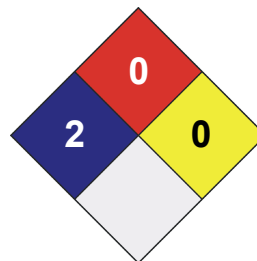
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | | |
|---------------------|---|---|
| HEALTH | * | 2 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |
| PERSONAL PROTECTION | | X |



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Further information

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Expiry date

01-July-2017

Prepared by

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Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.