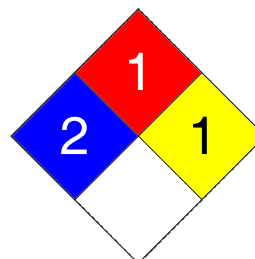


1. Product and Company Identification

Product Name Iron Out Automatic Toilet Bowl Cleaner
CAS # Mixture
Product use Toilet bowl cleaner
Manufacturer Iron Out dba Summit Brands
 7201 Engle Road
 Fort Wayne, IN 46804-5875 US
 Phone: 260-483-2519
 Emergency Phone: 1-800-424-9300 (CHEMTREC)

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

| | |
|---------------------|-----|
| Health | * 2 |
| Flammability | 1 |
| Physical Hazard | 1 |
| Personal Protection | X |



2. Hazards Identification

Emergency overview CAUTION
 MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
 MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY CAUSE ALLERGIC SKIN REACTION.

Potential short term health effects

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

Eyes May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects May cause respiratory and/or skin sensitization in sensitive individuals. 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

| Ingredient(s) | CAS # | Percent |
|--|------------|---------|
| Sodium lauryl sulfate | 151-21-3 | 7 - 13 |
| Amides, coco (hydroxyethyl) | 68140-00-1 | 10 - 30 |
| Sodium hydrosulfite | 7775-14-6 | 10 - 30 |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | 125-12-2 | 1 - 5 |
| Pine oil | 8002-09-3 | 1 - 5 |
| Sodium metabisulfite | 7681-57-4 | 0.1 - 1 |
| Sodium sulfite | 7757-83-7 | 0.1 - 1 |

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 | Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists. |
| Inhalation | If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. |
| Ingestion | Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. 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.
Risk of spontaneous ignition at high temperatures.

Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Dry chemical. Carbon dioxide. Foam. Water spray. |
| Unsuitable extinguishing media | Not available |

Protection of firefighters

Specific hazards arising from the chemical Not available

Protective equipment 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 sulphur. Hydrogen sulphide.

Explosion data

| | |
|---|---------------|
| Sensitivity to mechanical impact | Not available |
| Sensitivity to static discharge | Not available |

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods for containment

Stop leak if you can do so without risk.

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. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material.
Avoid contact with eyes and skin.
Avoid breathing dust.
Avoid prolonged or repeated skin contact with this material.
Wash thoroughly after handling.

Storage

Keep out of reach of children. Store in a closed container away from incompatible materials. Avoid storage at elevated temperatures.

8. Exposure Controls / Personal Protection

Exposure limits

| Ingredient(s) | Exposure Limits |
|--|---|
| Amides, coco (hydroxyethyl) | ACGIH-TLV Not established OSHA-PEL Not established |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | ACGIH-TLV Not established OSHA-PEL Not established |
| Pine oil | ACGIH-TLV Mist: 5 mg/m3 OSHA-PEL Not established |
| Sodium hydrosulfite | ACGIH-TLV Not established OSHA-PEL Not established |
| Sodium lauryl sulfate | ACGIH-TLV Not established OSHA-PEL Not established |
| Sodium metabisulfite | ACGIH-TLV TWA: 5 mg/m3 OSHA-PEL Not established |
| Sodium sulfite | ACGIH-TLV Not established OSHA-PEL Not established |

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 if good ventilation is maintained and exposure guidelines are not exceeded. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

| | |
|-----------------------|---------------|
| Appearance | Opaque. |
| Color | Light blue |
| Form | Tablet. |
| Odor | Pine |
| Odor threshold | Not available |
| Physical state | Solid |

| | |
|---|---------------------|
| pH | 3 - 3.5 1% solution |
| Melting point | Not available |
| Freezing point | Not available |
| Boiling point | Not available |
| Pour point | Not available |
| Evaporation rate | Not available |
| Flash point | 362 °F (183.33 °C) |
| Auto-ignition temperature | Not available |
| Flammability limits in air, lower, % by volume | Not applicable |
| Flammability limits in air, upper, % by volume | Not applicable |
| Vapor pressure | Not available |
| Vapor density | Not available |
| Specific gravity | Not available |
| Octanol/water coefficient | Not available |
| Percent volatile | Not available |

10. Stability and Reactivity

| | |
|---|---|
| Reactivity | This product may react with oxidizing agents. |
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Avoid high temperatures. Do not mix with other chemicals. |
| Incompatible materials | Acids. Oxidizing agents. Organic materials. Combustible materials. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Oxides of sulphur. Hydrogen sulphide. |

11. Toxicological Information

Component analysis - LC50

| Ingredient(s) | LC50 |
|--|-----------------|
| Amides, coco (hydroxyethyl) | Not available |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | Not available |
| Pine oil | Not available |
| Sodium hydrosulfite | Not available |
| Sodium lauryl sulfate | Not available |
| Sodium metabisulfite | Not available |
| Sodium sulfite | 5.5 mg/l/4h rat |

Component analysis - Oral LD50

| Ingredient(s) | LD50 |
|--|-----------------------------------|
| Amides, coco (hydroxyethyl) | 2700 mg/kg rat |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | 9000 mg/kg mouse; 10000 mg/kg rat |
| Pine oil | 3200 mg/kg rat |
| Sodium hydrosulfite | 2500 mg/kg rat |
| Sodium lauryl sulfate | 1288 mg/kg rat |
| Sodium metabisulfite | 1131 mg/kg rat |
| Sodium sulfite | 820 mg/kg mouse; 820 mg/kg rat |

Effects of acute exposure

| | |
|------------|-----------------------|
| Eye | May cause irritation. |
|------------|-----------------------|

| | |
|---|---|
| Skin | Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. |
| Inhalation | Dusts of this product may cause irritation of the nose, throat, and respiratory tract. |
| Ingestion | May cause stomach distress, nausea or vomiting. |
| Sensitization | May cause respiratory and skin sensitization. People with asthma or other lung problems may be more susceptible. May cause severe allergic reaction in some asthmatics and sulfite sensitive individuals. |
| Chronic effects | Non-hazardous by WHMIS/OSHA criteria. |
| Carcinogenicity | Ingredients not listed below are not classified or listed by IARC, NTP, OSHA and ACGIH. |
| ACGIH - Threshold Limit Values - Carcinogens | |
| Sodium metabisulfite | 7681-57-4 A4 - Not Classifiable as a Human Carcinogen |
| IARC - Group 3 (Not Classifiable) | |
| Sodium metabisulfite | 7681-57-4 Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites) |
| Sodium sulfite | 7757-83-7 Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites) |
| Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Reproductive effects | Non-hazardous by WHMIS/OSHA criteria. |
| Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. |
| Name of Toxicologically Synergistic Products | Not available |

12. Ecological Information

| | |
|---|---|
| Ecotoxicity | See below |
| Ecotoxicity - Freshwater Algae - Acute Toxicity Data | |
| Sodium hydrosulfite | 7775-14-6 72 Hr EC50 Desmodosmus subspicatus: 120 mg/L; 96 Hr EC50 Desmodosmus subspicatus: 87 mg/L |
| Sodium lauryl sulfate | 151-21-3 72 Hr EC50 Desmodosmus subspicatus: 53 mg/L; 96 Hr EC50 Desmodosmus subspicatus: 30 - 100 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 117 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 3.59 - 15.6 mg/L [static] |
| Sodium metabisulfite | 7681-57-4 72 Hr EC50 Desmodosmus subspicatus: 48 mg/L; 96 Hr EC50 Desmodosmus subspicatus: 40 mg/L |
| Ecotoxicity - Freshwater Fish - Acute Toxicity Data | |
| Amides, coco (hydroxyethyl) | 68140-00-1 96 Hr LC50 Brachydanio rerio: 28.5 mg/L [semi-static]; 96 Hr LC50 Brachydanio rerio: 31 mg/L |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | 125-12-2 96 Hr LC50 Brachydanio rerio: 10.0-18.0 mg/L [static] |
| Sodium hydrosulfite | 7775-14-6 96 Hr LC50 Leuciscus idus: 46 - 68 mg/L [static] |
| Sodium lauryl sulfate | 151-21-3 96 Hr LC50 Pimephales promelas: 8-12.5 mg/L [static] (fry); 96 Hr LC50 Pimephales promelas: 15-18.9 mg/L [static] (juvenile); 96 Hr LC50 Pimephales promelas: 22.1-22.8 mg/L [static] (adult); 96 Hr LC50 Oncorhynchus mykiss: 4.3-8.5 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 4.62 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 4.2 mg/L; 96 Hr LC50 Brachydanio rerio: 7.97 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 9.9-20.1 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 4.06-5. |
| Sodium metabisulfite | 7681-57-4 96 Hr LC50 Lepomis macrochirus: 32 mg/L [static] |
| Sodium sulfite | 7757-83-7 96 Hr LC50 Leuciscus idus: 220 - 460 mg/L [static] |
| Ecotoxicity - Water Flea - Acute Toxicity Data | |
| Amides, coco (hydroxyethyl) | 68140-00-1 24 Hr EC50 Daphnia magna: 10 mg/L |
| Pine oil | 8002-09-3 48 Hr EC50 Daphnia magna: 17 - 28 mg/L [Flow through] |
| Sodium hydrosulfite | 7775-14-6 48 Hr EC50 Daphnia magna Straus: 98 mg/L |
| Sodium lauryl sulfate | 151-21-3 48 Hr EC50 Daphnia magna: 1.8 mg/L |
| Sodium metabisulfite | 7681-57-4 24 Hr EC50 Daphnia magna Straus: 89 mg/L |
| Sodium sulfite | 7757-83-7 24 Hr LC50 Psammechinus miliaris: 330 mg/L |
| Persistence / degradability | Not available |
| Bioaccumulation / accumulation | Not available |
| Mobility in environmental media | Not available |
| Environmental effects | Not available |
| Aquatic toxicity | Not available |
| Partition coefficient | Not available |
| Chemical fate information | Not available |
| Other adverse effects | Not available |

13. Disposal Considerations

| | |
|--|--|
| Disposal instructions | Review federal, state/provincial, and local government requirements prior to disposal. |
| 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 List

| | | |
|-----------------------|-----------|-----|
| Sodium lauryl sulfate | 151-21-3 | 1 % |
| Sodium metabisulfite | 7681-57-4 | 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.

CERCLA (Superfund) reportable quantity

None

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations

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

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

| | | |
|----------------------|-----------|---------|
| Sodium metabisulfite | 7681-57-4 | Present |
|----------------------|-----------|---------|

U.S. - Massachusetts - Right To Know List

| | | |
|----------------------|-----------|---------|
| Sodium hydrosulfite | 7775-14-6 | Present |
| Sodium metabisulfite | 7681-57-4 | Present |

U.S. - Minnesota - Hazardous Substance List

| | | |
|----------------------|-----------|---------|
| Sodium metabisulfite | 7681-57-4 | Present |
|----------------------|-----------|---------|

U.S. - New Jersey - Right to Know Hazardous Substance List

| | | |
|----------------------|-----------|---------|
| Pine oil | 8002-09-3 | sn 2684 |
| Sodium hydrosulfite | 7775-14-6 | sn 1697 |
| Sodium metabisulfite | 7681-57-4 | sn 1708 |

U.S. - Pennsylvania - RTK (Right to Know) List

| | | |
|----------------------|-----------|---------|
| Sodium hydrosulfite | 7775-14-6 | Present |
| Sodium metabisulfite | 7681-57-4 | Present |

U.S. - Rhode Island - Hazardous Substance List

| | | |
|----------------------|-----------|-----------|
| Sodium hydrosulfite | 7775-14-6 | Flammable |
| Sodium metabisulfite | 7681-57-4 | Toxic |

Inventory name

| 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

Disclaimer

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

Issue date

19-Jan-2012

Effective date

15-Mar-2012

Expiry date

15-Mar-2015

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021

Other information

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