# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product identifier** **Iron Out Automatic Toilet Bowl Cleaner**

**Other means of identification** Not available

**Recommended use** Toilet bowl cleaner

**Recommended restrictions** None known.

**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)

## 2. Hazards Identification

**Physical hazards** Not classified.

**Health hazards**

| | |
|---|---|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2A |
| Sensitization, respiratory | Category 1 |

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**

**Signal word** Danger

**Hazard statement** Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Precautionary statement**

**Prevention** Wash thoroughly after handling.
Wear eye/face protection. Wear protective gloves.
In case of inadequate ventilation wear respiratory protection.

**Response** If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/Information on Ingredients

**Mixture**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Sodium sulfate | | 7757-82-6 | 30 - 60 |
| Amides, coco (hydroxyethyl) | | 68140-00-1 | 10 - 30 |
| Sodium hydrosulfite | | 7775-14-6 | 10 - 30 |
| Sodium lauryl sulfate | | 151-21-3 | 7 - 13 |
| D-Gluconic acid, monosodium salt | | 527-07-1 | 3 - 7 |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- | | 125-12-2 | 1 - 5 |

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| Monoethanolamine | | 141-43-5 | 1 - 5 |

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

## 4. First Aid Measures

**Inhalation** If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Skin contact** If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**Eye contact** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion** Rinse mouth. Do not induce vomiting. Get medical attention if symptoms occur. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

**Most important symptoms/effects, acute and delayed** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause allergic respiratory reaction. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

**General information** 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.

## 5. Fire Fighting Measures

**Suitable extinguishing media** Water. Foam. Dry chemical powder. Carbon dioxide.

**Unsuitable extinguishing media** None known.

**Specific hazards arising from the chemical** Firefighters should wear a self-contained breathing apparatus.

**Special protective equipment and precautions for firefighters** Firefighters should wear full protective clothing including self contained breathing apparatus.

**Fire-fighting equipment/instructions** In the event of fire, cool tanks with water spray.

**Specific methods** Cool containers exposed to flames with water until well after the fire is out.

**General fire hazards** No unusual fire or explosion hazards noted.

**Hazardous combustion products** May include and are not limited to: Oxides of carbon. Oxides of sulfur. Hydrogen sulfide.

**Explosion data**

**Sensitivity to mechanical impact** Not available.

**Sensitivity to static discharge** Not available.

## 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures** Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up** Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.

## 7. Handling and Storage

**Precautions for safe handling** Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged exposure. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Use good industrial hygiene practices in handling this material.

**Conditions for safe storage, including any incompatibilities** Store in a closed container away from incompatible materials. Store in a well-ventilated place. Keep out of reach of children. Avoid storage at elevated temperatures.

## 8. Exposure Controls/Personal Protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value |
|---|---|---|
| Monoethanolamine (CAS 141-43-5) | PEL | 6 mg/m3 |
| | | 3 ppm |

**US. ACGIH Threshold Limit Values**

| Components | Type | Value |
|---|---|---|
| Monoethanolamine (CAS 141-43-5) | STEL | 6 ppm |
| | TWA | 3 ppm |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components | Type | Value |
|---|---|---|
| Monoethanolamine (CAS 141-43-5) | STEL | 15 mg/m3 |
| | | 6 ppm |
| | TWA | 8 mg/m3 |
| | | 3 ppm |

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields.

**Skin protection**

**Hand protection** Rubber gloves. Confirm with a reputable supplier first.

**Other** Wear appropriate chemical resistant clothing. As required by employer code.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). 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.

**Thermal hazards** Not applicable.

**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** Tablet.

**Physical state** Solid.

**Form** Solid. Solid

**Color** White.

**Odor** Not available.

**Odor threshold** Not available.

**pH** 3 - 7 (1% solution)

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not available.

**Pour point** Not available.

**Specific gravity** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

| | |
|---|---|
| **Flammability (solid, gas)** | Not applicable. |
| **Upper/lower flammability or explosive limits** | |
| **Flammability limit - lower (%)** | Not available. |
| **Flammability limit - upper (%)** | Not available. |
| **Explosive limit - lower (%)** | Not available. |
| **Explosive limit - upper (%)** | Not available. |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | Not available. |
| **Auto-ignition temperature** | Not available. |
| **Decomposition temperature** | Not available. |
| **Viscosity** | 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 sulfur. Hydrogen sulphide. |

## 11. Toxicological Information

| | |
|---|---|
| **Routes of exposure** | Eye, Skin contact, Inhalation, Ingestion. |
| **Information on likely routes of exposure** | |
| **Ingestion** | Expected to be a low ingestion hazard. |
| **Inhalation** | Prolonged inhalation may be harmful. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| **Skin contact** | Causes skin irritation. |
| **Eye contact** | Causes serious eye irritation. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause redness and pain. |

**Information on toxicological effects**

**Acute toxicity** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

| Components | Species | Test Results |
|---|---|---|
| Amides, coco (hydroxyethyl) (CAS 68140-00-1) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | > 2000 ml/kg |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Mouse | > 10000 mg/kg |
| | Rat | 2700 mg/kg |
| Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- (CAS 125-12-2) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rat | 2000 mg/kg |
| *Inhalation* | | |
| LC50 | Not available | |

| Components | Species | Test Results |
|---|---|---|
| *Oral* | | |
| LD50 | Mouse | 9000 mg/kg |
| | Rat | 10000 mg/kg |
| D-Gluconic acid, monosodium salt (CAS 527-07-1) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Rat | > 2000 mg/kg |
| Monoethanolamine (CAS 141-43-5) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 1018 mg/kg |
| | | 1000 mg/kg |
| *Inhalation* | | |
| LC50 | Mouse | 1210 mg/m3, 4 Hours |
| | | 484 ppm, 4 Hours |
| | | 1.2 mg/l, 4 Hours |
| *Oral* | | |
| LD50 | Guinea pig | 620 mg/kg |
| | Mouse | 1475 mg/kg |
| | | 700 mg/kg |
| | Rat | 1970 mg/kg |
| | | 1720 mg/kg |
| Sodium hydrosulfite (CAS 7775-14-6) | | |
| **Acute** | | |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Rat | 2500 mg/kg |
| Sodium lauryl sulfate (CAS 151-21-3) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rabbit | 580 mg/kg |
| *Inhalation* | | |
| LC50 | Rat | > 3900 mg/m3, 1 hr |
| *Oral* | | |
| LD50 | Rat | 1288 mg/kg |
| Sodium sulfate (CAS 7757-82-6) | | |
| **Acute** | | |
| *Dermal* | | |
| LD50 | Rat | 4000 mg/kg |
| *Inhalation* | | |
| LC50 | Not available | |
| *Oral* | | |
| LD50 | Mouse | 5989 mg/kg |
| | Rat | 10000 mg/kg |

| | |
|---|---|
| **Skin corrosion/irritation** | Causes skin irritation. |
| **Exposure minutes** | Not available. |
| **Erythema value** | Not available. |
| **Oedema value** | Not available. |

| | |
|---|---|
| **Serious eye damage/eye irritation** | Causes serious eye irritation. |
| **Corneal opacity value** | Not available. |
| **Iris lesion value** | Not available. |
| **Conjunctival reddening value** | Not available. |
| **Conjunctival oedema value** | Not available. |
| **Recover days** | Not available. |
| **Respiratory or skin sensitization** | |
| **Respiratory sensitization** | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| **Skin sensitization** | This product is not expected to cause skin sensitization. |
| **Germ cell mutagenicity** | Non-hazardous by WHMIS/OSHA criteria. |
| **Mutagenicity** | Non-hazardous by WHMIS/OSHA criteria. |
| **Carcinogenicity** | Not classified or listed by IARC, NTP, OSHA and ACGIH. |
| **Reproductive toxicity** | Non-hazardous by WHMIS/OSHA criteria. |
| **Teratogenicity** | Non-hazardous by WHMIS/OSHA criteria. |
| **Specific target organ toxicity - single exposure** | Not classified. |
| **Specific target organ toxicity - repeated exposure** | Not classified. |
| **Aspiration hazard** | Not available. |
| **Chronic effects** | Prolonged inhalation may be harmful. May be harmful if absorbed through skin. |
| **Further information** | Not available. |
| **Name of Toxicologically Synergistic Products** | Not available. |

## 12. Ecological Information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

| Components | | Species | Test Results |
|---|---|---|---|
| Monoethanolamine (CAS 141-43-5) | | | |
| Algae | IC50 | Algae | 15 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 65 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 114 - 196 mg/l, 96 hours |
| Sodium hydrosulfite (CAS 7775-14-6) | | | |
| Algae | IC50 | Algae | 120 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 98 mg/L, 48 Hours |
| Sodium lauryl sulfate (CAS 151-21-3) | | | |
| Algae | IC50 | Algae | 53 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 1.8 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Carp, hawk fish (Cirrhinus mrigala) | 1.36 mg/l, 96 hours |
| Sodium sulfate (CAS 7757-82-6) | | | |
| Crustacea | EC50 | Daphnia | 630 mg/L, 48 Hours |
| **Aquatic** | | | |
| Fish | LC50 | Striped bass (Morone saxatilis) | 790 mg/l, 96 hours |

| | |
|---|---|
| **Persistence and degradability** | No data is available on the degradability of this product. |
| **Bioaccumulative potential** | No data available. |
| **Mobility in soil** | No data available. |
| **Mobility in general** | Not available. |
| **Other adverse effects** | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## 13. Disposal Considerations

| | |
|---|---|
| **Disposal instructions** | Dispose of contents/container in accordance with local/regional/national/international regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. |
| **Local disposal regulations** | Dispose in accordance with all applicable regulations. |
| **Hazardous waste code** | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| **Waste from residues / unused products** | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| **Contaminated packaging** | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

## 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 SDS contains all the information required by the Controlled Products Regulations.

**Canada WHMIS Ingredient Disclosure: Threshold limits**

| | |
|---|---|
| Monoethanolamine (CAS 141-43-5) | 1 % |
| Sodium lauryl sulfate (CAS 151-21-3) | 1 % |

**WHMIS status** Controlled

**WHMIS classification** Class D - Division 2A, 2B

**WHMIS labeling**

**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.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**US CAA Section 111 Volatile Organic Compounds: Listed substance**

| | |
|---|---|
| Monoethanolamine (CAS 141-43-5) | 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.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

| | |
|---|---|
| **Hazard categories** | Immediate Hazard - Yes<br>Delayed Hazard - Yes<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |
| **SARA 302 Extremely hazardous substance** | No |
| **SARA 311/312 Hazardous chemical** | No |

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**US 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**

Monoethanolamine (CAS 141-43-5) Listed.

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

Not listed.

**US - Minnesota Haz Subs: Listed substance**

Monoethanolamine (CAS 141-43-5) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Monoethanolamine (CAS 141-43-5) Listed.
Sodium hydrosulfite (CAS 7775-14-6) Listed.

**US - Texas Effects Screening Levels: Listed substance**

Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, acetate, exo- (CAS 125-12-2) Listed.
D-Gluconic acid, monosodium salt (CAS 527-07-1) Listed.
Monoethanolamine (CAS 141-43-5) Listed.
Sodium hydrosulfite (CAS 7775-14-6) Listed.
Sodium lauryl sulfate (CAS 151-21-3) Listed.
Sodium sulfate (CAS 7757-82-6) Listed.

**US. Massachusetts RTK - Substance List**

Monoethanolamine (CAS 141-43-5) Listed.
Sodium hydrosulfite (CAS 7775-14-6) Listed.
Sodium sulfate (CAS 7757-82-6) Listed.

**US. Pennsylvania RTK - Hazardous Substances**

Monoethanolamine (CAS 141-43-5) Listed.
Sodium hydrosulfite (CAS 7775-14-6) Listed.
Sodium sulfate (CAS 7757-82-6) Listed.

**US. Rhode Island RTK**

Not regulated.

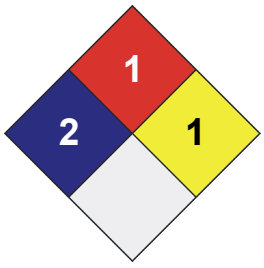
**Inventory status**

| 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 |


**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-November-2014

**Effective date** 31-October-2014

**Expiry date** 31-October-2017

**Further information** For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Prepared by** Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**Other information**

Redbook revision # 13, 10/23/14

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).