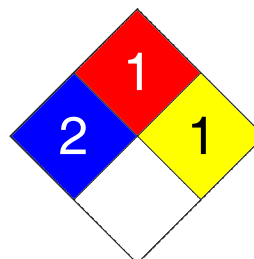


1. Product and Company Identification

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	B



2. Hazards Identification

Emergency overview CAUTION: EYE AND SKIN IRRITANT.
 May cause sensitization by inhalation and skin contact.

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.

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.
Methods for containment	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. 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.
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/m ³ 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/m ³ 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
Flash point	> 60.00 °C (> 140 °F)
Evaporation rate	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
Auto-ignition temperature	Not available
Percent volatile	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Avoid high temperatures.
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.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

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	Non-hazardous by WHMIS/OSHA criteria.
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.

12. Ecological Information

Ecotoxicity	See below
Ecotoxicity - Freshwater Algae Data	
Sodium hydrosulfite	7775-14-6 72 Hr EC50 Scenedesmus subspicatus: 120 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 87 mg/L
Sodium lauryl sulfate	151-21-3 72 Hr EC50 Scenedesmus subspicatus: 53 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 30-100 mg/L; 96 Hr EC50 Selenastrum capricornutum: 117 mg/L
Sodium metabisulfite	7681-57-4 72 Hr EC50 Scenedesmus subspicatus: 48 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 40 mg/L
Ecotoxicity - Freshwater Fish Species Data	
Amides, coco (hydroxyethyl)	68140-00-1 96 Hr LC50 Brachydanio rerio: 28.5 mg/L [semi-static]
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 - Microtox Data	
Sodium hydrosulfite	7775-14-6 17 Hr EC50 Pseudomonas putida: 107 mg/L
Sodium lauryl sulfate	151-21-3 5 Min EC50 Photobacterium phosphoreum: 1.19 mg/L; 15 min EC50 Photobacterium phosphoreum: 0.72 mg/L; 30 min EC50 Photobacterium phosphoreum: 0.46 mg/L
Sodium metabisulfite	7681-57-4 17 Hr EC50 Pseudomonas putida: 56 mg/L
Sodium sulfite	7757-83-7 17 Hr EC50 Pseudomonas putida: 770 mg/L
Ecotoxicity - Water Flea Data	
Amides, coco (hydroxyethyl)	68140-00-1 24 Hr EC50 Daphnia magna: 10 mg/L
Pine oil	8002-09-3 48 Hr EC50 water flea: 3.32 mg/L
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
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Waste codes	Not available
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Disposal instructions	Review federal, 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 %

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

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

WHMIS status Controlled

WHMIS classification Class D - Division 2A, 2B

WHMIS labeling



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
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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
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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

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.

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