



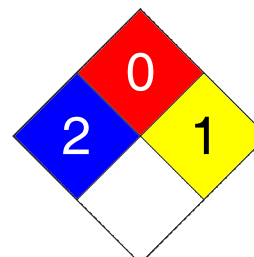
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Super Iron Out®
CAS # Mixture
Product use Rust & Stain Remover
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	0
Physical Hazard	1
Personal Protection	B



2. Hazards Identification

Emergency overview CAUTION
 EYE AND SKIN IRRITANT.
 May cause sensitization by inhalation.

Potential short term health effects

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

Eyes Causes irritation.

Skin Causes irritation.

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 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 hydrosulfite	7775-14-6	30 - 60
Sodium carbonate	497-19-8	3 - 7
Sodium chloride	7647-14-5	15 - 40
Sodium metabisulfite	7681-57-4	15 - 40
Citric acid	77-92-9	1 - 5
Sodium bisulfite	7631-90-5	0.1 - 1

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention if irritation develops or persists.

Skin contact Immediately flush with water. Wash with soap and 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. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

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.

Extinguishing media**Suitable extinguishing media**

Dry chemical. Carbon dioxide. Foam.

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 sulphur. Hydrogen sulphide. Oxides of carbon. Hydrogen chloride.

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

Should not be released into the environment. 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.

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.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Citric acid	ACGIH-TLV TWA: 10 mg/m ³ OSHA-PEL TWA: 10 mg/m ³
Sodium bisulfite	ACGIH-TLV TWA: 5 mg/m ³ OSHA-PEL Not established
Sodium carbonate	ACGIH-TLV Not established OSHA-PEL Not established
Sodium chloride	ACGIH-TLV Not established OSHA-PEL Not established
Sodium hydrosulfite	ACGIH-TLV Not established OSHA-PEL Not established
Sodium metabisulfite	ACGIH-TLV TWA: 5 mg/m ³ OSHA-PEL Not established

Engineering controls

Use only under good ventilation conditions or with respiratory protection.

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

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 & Chemical Properties

Appearance	Powder
Color	White
Form	Powder
Odor	Characteristic
Odor threshold	Not available
Physical state	Solid
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	None
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. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of sulphur. Hydrogen sulphide. Oxides of carbon. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Citric acid	Not available
Sodium bisulfite	Not available
Sodium carbonate	400 mg/m3 guinea pig
Sodium chloride	> 21000 mg/m3 rat
Sodium hydrosulfite	Not available
Sodium metabisulfite	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Citric acid	5040 mg/kg mouse; 3000 mg/kg rat
Sodium bisulfite	1420 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Sodium chloride	3000 mg/kg rat; 4000 mg/kg mouse
Sodium hydrosulfite	2500 mg/kg rat
Sodium metabisulfite	1131 mg/kg rat

Effects of acute exposure

Eye	Causes irritation.
Skin	Causes irritation.
Inhalation	Dusts of this product may cause irritation of the nose, throat, and respiratory tract.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitization	Hazardous by WHMIS/OSHA criteria. May cause sensitization by inhalation.
Chronic effects	Not classified or listed by IARC, NTP, OSHA and ACGIH.

Carcinogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

ACGIH - Threshold Limit Values - Carcinogens

Sodium bisulfite	7631-90-5	A4 - Not Classifiable as a Human Carcinogen
Sodium metabisulfite	7681-57-4	A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

Sodium bisulfite	7631-90-5	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)
Sodium metabisulfite	7681-57-4	Monograph 54 [1992] (listed under Sulfur dioxide and some sulfites bisulfites and metabisulfites)

Mutagenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

Reproductive effects Not classified or listed by IARC, NTP, OSHA and ACGIH.

Teratogenicity Not classified or listed by IARC, NTP, OSHA and ACGIH.

12. Ecological Information

Ecotoxicity Not available

Ecotoxicity - Freshwater Algae Data

Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Sodium hydrosulfite	7775-14-6	72 Hr EC50 Scenedesmus subspicatus: 120 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 87 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

Citric acid	77-92-9	96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]; 96 Hr LC50 Leuciscus idus: 440 mg/L [static]
Sodium bisulfite	7631-90-5	96 Hr LC50 Gambusia affinis: 240 mg/L [static]
Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]
Sodium hydrosulfite	7775-14-6	96 Hr LC50 Leuciscus idus: 46-68 mg/L [static]
Sodium metabisulfite	7681-57-4	96 Hr LC50 Lepomis macrochirus: 32 mg/L [static]

Ecotoxicity - Microtox Data

Citric acid	77-92-9	15 Min EC50 Photobacterium phosphoreum: 14 mg/L
Sodium hydrosulfite	7775-14-6	17 Hr EC50 Pseudomonas putida: 107 mg/L
Sodium metabisulfite	7681-57-4	17 Hr EC50 Pseudomonas putida: 56 mg/L

Ecotoxicity - Water Flea Data

Citric acid	77-92-9	72 Hr EC50 Daphnia magna: 120 mg/L
Sodium bisulfite	7631-90-5	48 Hr EC50 Daphnia magna: 119 mg/L
Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 mg/L
Sodium hydrosulfite	7775-14-6	48 Hr EC50 Daphnia magna Straus: 98 mg/L
Sodium metabisulfite	7681-57-4	24 Hr EC50 Daphnia magna Straus: 89 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

13. Disposal Considerations

Waste codes Not available

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

Citric acid	77-92-9	1 %
Sodium bisulfite	7631-90-5	1 %
Sodium carbonate	497-19-8	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.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Sodium bisulfite	7631-90-5	5000 Lb final RQ; 2270 kg final RQ
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Sodium bisulfite: 5000.0000
Sodium tripolyphosphate: 5000.0000
Metaphosphoric acid, trisodium salt: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

Safe Drinking Water Act (SDWA) Not available

Drug Enforcement Agency (DEA) Not available

Food and Drug Administration (FDA) 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 bisulfite	7631-90-5	Present
Sodium metabisulfite	7681-57-4	Present

U.S. - Louisiana - Reportable Quantity List for Pollutants

Sodium bisulfite	7631-90-5	5000 Lb final RQ; 2270 kg final RQ
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U.S. - Massachusetts - Right To Know List

Sodium bisulfite	7631-90-5	Present
Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

U.S. - Minnesota - Hazardous Substance List

Sodium bisulfite	7631-90-5	Present
Sodium metabisulfite	7681-57-4	Present

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

Sodium bisulfite	7631-90-5	sn 1685
Sodium hydrosulfite	7775-14-6	sn 1697
Sodium metabisulfite	7681-57-4	sn 1708

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Sodium bisulfite	7631-90-5	5000 Lb RQ (air); 100 lb RQ (land/water)
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U.S. - Pennsylvania - RTK (Right to Know) List

Sodium bisulfite	7631-90-5	Environmental hazard
Sodium hydrosulfite	7775-14-6	Present
Sodium metabisulfite	7681-57-4	Present

U.S. - Rhode Island - Hazardous Substance List

Sodium bisulfite	7631-90-5	Toxic
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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