

SAFETY DATA SHEET

1. Product and Company Identification

| Product identifier | Iron OUT (liquid) | | |
|--|---|---|--|
| Other means of identification | Not available | | |
| Recommended use | Rust Stain Remover | | |
| 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 Identifica | ation | |
| Physical hazards | Corrosive to metals | Category 1 | |
| Health hazards | Acute toxicity, dermal | Category 4 | |
| | Skin corrosion/irritation | Category 1 | |
| | Serious eye damage/eye irritation | Category 1 | |
| Environmental hazards | Not classified. | | |
| OSHA defined hazards | Not classified. | | |
| Label elements | | | |
| Signal word Hazard statement | Danger May be corrosive to metals. Harmful in contact with skin. Causes severe skin burns and eye dama | | |
| Precautionary statement | | ·9·. | |
| Prevention | Keep only in original container. Do not breathe mist or vapor. Wash thoro clothing/eye protection/face protection. | oughly after handling. Wear protective gloves/protective | |
| Response | If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. | | |
| | Specific treatment (see this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Absorb spillage to prevent material damage. | | |
| Storage | Store locked up. Store in corrosive resista | Store locked up. Store in corrosive resistant container with a resistant inner liner. | |
| Disposal | Dispose of contents/container in accorda | nce with local/regional/national/international regulations. | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | |
| Supplemental information | 88% of the mixture consists of componer | t(s) of unknown acute dermal toxicity. | |
| | 3. Composition/Information of | on Ingredients | |
| | • | . | |

| Mixture | | | |
|----------------------|---|------------|--------|
| Chemical name | Common name and synonyms | CAS number | % |
| Oxalic acid | | 144-62-7 | 5 - 10 |
| 1,2-Propanediol | | 57-55-6 | 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. Immediately call a poison center/doctor/. | |
| Skin contact | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. | |
| Eye contact | in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and asy to do. Continue rinsing. Immediately call a poison center/doctor. | |
| Ingestion | If swallowed: Rinse mouth. Do NOT induce vomiting. | |
| Most important symptoms/effects, acute and delayed | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. | |
| Indication of immediate medical attention and special treatment needed | ovide general supportive measures and treat symptomatically. Chemical burns: Flush with water mediately. While flushing, remove clothes which do not adhere to affected area. Call an nbulance. Continue flushing during transport to hospital. Keep victim under observation. <i>r</i> mptoms 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. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. | |
| | 5. Fire Fighting Measures | |
| Suitable extinguishing media | Dry chemical. Water spray. Foam. Carbon dioxide (CO2). | |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. | |
| 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 | Move containers from fire area if you can do so without risk. | |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. | |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen fluoride. | |
| 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 breathe mist or vapor. 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 | Should not be released into the environment. | |
| containment and cleaning up | Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water . Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. | |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. 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 | DANGER CORROSIVE Use only with adequate ventilation. Do not taste or swallow. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mists of this product. | |
| Conditions for safe storage, including any incompatibilities | Store locked up. Store in corrosive resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight. | |

8. Exposure Controls/Personal Protection

Occupational exposure limits

| Components | Туре | Value | |
|----------------------------------|--|---|---|
| Oxalic acid (CAS 144-62-7) | PEL | 1 mg/m3 | |
| US. ACGIH Threshold Limit | Values | | |
| Components | Type Value | | |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| US. NIOSH: Pocket Guide to | Chemical Hazards | | |
| Components | Туре | Value | |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| US. AIHA Workplace Enviro | nmental Exposure Level (WEEL) Gu | lides | |
| Components | Туре | Value | Form |
| 1,2-Propanediol (CAS 57-55-6) | TWA | 10 mg/m3 | Aerosol. |
| logical limit values | No biological exposure limits noted for the ingredient(s). | | |
| propriate engineering htrols | Good general ventilation (typically 10 should be matched to conditions. If a or other engineering controls to mair exposure limits have not been estab | applicable, use process enclosuntain airborne levels below reco | ures, local exhaust ventilatior ommended exposure limits. If |
| ividual protection measures, | such as personal protective equipn | nent | |
| Eye/face protection | Wear safety glasses with side shield | ls (or goggles) and a face shield | d. |
| Skin protection | | | |
| Hand protection | Rubber gloves. Confirm with a repu | table supplier first. | |
| Other | As required by employer code. Rubber apron recommended. | | |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. | | |
| Thermal hazards | Not applicable. | | |
| neral hygiene nsiderations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. When using do not eat or drink. | | |

9. Physical and Chemical Properties

| Clear Liquid. Liquid. |
|-----------------------------|
| • |
| Liquid. |
| |
| Colorless |
| Lime. |
| Not available. |
| <1 |
| Not available. |
| Not available. |
| Not available. |
| |

| Specific gravity | 1.025 |
|--|---|
| Partition coefficient (n-octanol/water) | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or exp | losive 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 | Reacts violently with alkaline material. This product may react with reducing agents. |
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| Reactivity | Reacts violentity with aikaline material. This product may react with reducing agents. |
|---------------------------------------|--|
| Possibility of hazardous reactions | Hazardous polymerization does not occur. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Reacts violently with strong alkaline substances. This product may react with reducing agents. |
| Incompatible materials | Acids. Caustics. Oxidizers. Reducing agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen fluoride. |

11. Toxicological Information

| Routes of exposure | Eye, Skin contact, Skin absorption, Inhalation, Ingestion. |
|--|---|
| Information on likely routes of | exposure |
| Ingestion | Causes digestive tract burns. |
| Inhalation | Prolonged inhalation may be harmful. May cause irritation to the respiratory system. |
| Skin contact | Causes severe skin burns. Harmful in contact with skin. |
| Eye contact | Causes serious eye damage. |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Information on toxicological ef | fects |

Acute toxicity

Harmful in contact with skin.

| Species | Test Results |
|---------------|---|
| | |
| | |
| Rabbit | 20800 mg/kg |
| | |
| Not available | |
| | |
| Dog | 19000 mg/kg |
| Guinea pig | 184000 mg/kg |
| Mouse | 23900 mg/kg |
| Rabbit | 14800 mg/kg |
| | Rabbit Not available Dog Guinea pig Mouse |

| Rat 20000 mg/kg Oxalic acid (CAS 144-62-7) Acute Dermal LD50 Rabbit 20000 mg/kg Oral ID50 Rabbit 20000 mg/kg Oral ID50 Rat 1080 mg/kg ID50 Rat 1080 mg/kg Skin corrosion/irritation Causes severe skin burns and eye damage. Exposure minutes Not available. Ordema value Not available. Ocdema value Not available. Ordema value Not available. Strious eye damage/eye Causes serious eye damage. irritation Correal opacity value Not available. Conjunctival reddening Value Not available. Respiratory or skin sensitization Not available. Respiratory sensitization Not available. Skin sensitization This product is not expected to cause skin sensitization. Gern 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. Reporture toxicity Non-hazardous by WHMIS/OSHA criteria. Graingenicity Not classified. Specific target organ toxicity - isingle exposure Not available. </th <th>Components</th> <th>Species</th> <th>Test Results</th> | Components | Species | Test Results | |
|--|---|---|--------------|--|
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| Reproductive toxicityNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.Specific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardNot available.Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | Mutagenicity | Non-hazardous by WHMIS/OSHA criteria. | | |
| TeratogenicityNon-hazardous by WHMIS/OSHA criteria.Specific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardNot available.Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | Carcinogenicity | Not classified or listed by IARC, NTP, OSHA and ACGIH. | | |
| Specific target organ toxicity - single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardNot available.Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | Reproductive toxicity | Non-hazardous by WHMIS/OSHA criteria. | | |
| single exposureNot classified.Specific target organ toxicity - repeated exposureNot classified.Aspiration hazardNot available.Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | Teratogenicity | Non-hazardous by WHMIS/OSHA criteria. | | |
| repeated exposureAspiration hazardNot available.Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | | Not classified. | | |
| Chronic effectsProlonged inhalation may be harmful.Further informationNot available.Name of ToxicologicallyNot available. | | Not classified. | | |
| Further information Not available. Name of Toxicologically Not available. | Aspiration hazard | Not available. | | |
| Name of Toxicologically Not available. | Chronic effects | Prolonged inhalation may be harmful. | | |
| | Further information | Not available. | | |
| Synergistic Products | Name of Toxicologically Synergistic Products | Not available. | | |

12. Ecological Information

| Ecotoxicity | Because of the low pH of this product, it would be expected to produce significant ecotoxicity u exposure to aquatic organisms and aquatic systems. | | |
|--|---|--|--------------------------|
| Components | | Species | Test Results |
| 1,2-Propanediol (CAS 57-55 | -6) | | |
| Crustacea | EC50 | Daphnia | 10000 mg/L, 48 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/l, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 710 mg/l, 96 hours |
| Oxalic acid (CAS 144-62-7) | | | |
| Crustacea | EC50 | Daphnia | 137.5 mg/L, 48 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 125 - 150 mg/l, 48 hours |
| Persistence and degradability Bioaccumulative potential | No data is ava No data availa | ilable on the degradability of this product. ble. | |

| Mobility in soil | No data available. | | |
|--|---|--|--|
| Mobility in general | 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 | Review federal, state/provincial, and local government requirements prior to disposal. 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) **Basic shipping requirements: UN** number UN1760 Proper shipping name Corrosive liquids, n.o.s. (Oxalic acid) Hazard class 8 **Packing group** Ш B2, IB2, T11, TP2, TP27 **Special provisions** 154 Packaging exceptions Transportation of Dangerous Goods (TDG - Canada) Basic shipping requirements:

| UN number | UN1760 |
|----------------------|--|
| Proper shipping name | CORROSIVE LIQUID, N.O.S. (Oxalic acid) |
| Hazard class | 8 |
| Packing group | II |
| Special provisions | 16 |
| | |

DOT





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 I 1,2-Propanediol (CAS 57 | Disclosure: Threshold limits | 1 % |
|---|---|--|
| Oxalic acid (CAS 144-62 | | 0.1 % |
| WHMIS status | Controlled | |
| WHMIS classification | Class E - Corrosive Material | |
| WHMIS labeling | | |
| | | |
| US federal regulations | This product is a "Hazardous Standard, 29 CFR 1910.1200 | Chemical" as defined by the OSHA Hazard Communication |
| TSCA Section 12(b) Export | Notification (40 CFR 707, Sub | pt. D) |
| Oxalic acid (CAS 144-62 CERCLA Hazardous Substa Not listed. US CAA Section 111 Volatil | | 1.0 % One-Time Export Notification only. |
| 1,2-Propanediol (CAS 57 | • | Listed. |
| | n 112(r) Accidental Release Pr | evention (40 CFR 68.130) |
| Clean Air Act (CAA) Sectior Not regulated. | n 112 Hazardous Air Pollutant | s (HAPs) List |
| Superfund Amendments and Re | authorization Act of 1986 (SA | RA) |
| Hazard categories | Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No | |
| SARA 302 Extremely hazardous substance | No | |
| SARA 311/312 Hazardous chemical | No | |
| SARA 313 (TRI reporting) Not regulated. | | |
| Other federal regulations | | |
| Clean Water Act (CWA) Section 112(r) (40 CFR 68.130) | Hazardous substance | |
| Safe Drinking Water Act (SDWA) | Not regulated. | |
| Food and Drug Administration (FDA) | Not regulated. | |
| US state regulations | This product does not contain defects or other reproductive | a chemical known to the State of California to cause cancer, birth harm. |
| | us Substances (Director's): L | isted substance |
| Oxalic acid (CAS 14 | , | Listed. |
| US - California Proposit Not listed. | uon oo - Carcinogens & Repro | oductive Toxicity (CRT): Listed substance |
| US - Minnesota Haz Sul | bs: Listed substance | |
| 1,2-Propanediol (CA Oxalic acid (CAS 14 | S 57-55-6) | Listed. Listed. |
| US - New Jersey RTK - | Substances: Listed substance | e |
| 1,2-Propanediol (CA | | Listed. |
| Oxalic acid (CAS 14 | 4-62-7) eening Levels: Listed substan | Listed. |
| 1,2-Propanediol (CA | - | Listed. |
| Oxalic acid (CAS 14 | | Listed. |
| US. Massachusetts RT | K - Substance List | |
| - | - Hazardous Substances | Listed. |
| 1,2-Propanediol (CA Oxalic acid (CAS 14 | | Listed. Listed. |

US. Rhode Island RTK

Not regulated.

Inventory status

| Country(s) or region | |
|----------------------|--|
| Canada | |
| Canada | |

LEGEND

Inventory name

Domestic Substances List (DSL)

Non-Domestic Substances List (NDSL) Toxic Substances Control Act (TSCA) Inventory

United States & Puerto Rico To:

4 3

2 1

0

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

| HEALTH / 3 | |
|-------------------|-----|
| | 3 0 |
| PHYSICAL HAZARD 0 | |
| PERSONAL X | |

16. Other Information



Issue date

Effective date Expiry date

Prepared by Other information

Further information

Minimal

Severe

Serious Moderate

Slight

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. 16-March-2015 01-February-2015 01-February-2018 For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document. Dell Tech Laboratories, Ltd. Phone: (519) 858-5021 Redbook revision # 9, 2/12/14

> 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). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

On inventory (yes/no)*

Yes No

Yes