

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	
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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.
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Liquid.
Colorless
Lime.
Not available.
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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.

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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	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