

SAFETY DATA SHEET

1. Identification

Lime OUT Product identifier Other means of identification Not available.

Calcium and Lime Scale Stain Remover Recommended use

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Iron Out dba Summit Brands Company name

Address 6714 Pointe Inverness Way, Suite 200

Fort Wayne, IN 46804-7935

United States 260-483-2519

Telephone E-mail Not available.

1-800-424-9300 (CHEMTREC) **Emergency phone number**

See above. Supplier

2. Hazard identification

Physical hazards Corrosive to metals Category 1 **Health hazards** Skin corrosion/irritation Category 1 Category 1

Serious eye damage/eye irritation

Environmental hazards Not classified. WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

Hazard statement May be corrosive to metals. Causes severe skin burns and eye damage.

Precautionary statement

Prevention Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and face protection.

Absorb spillage to prevent material-damage. Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

Store in a corrosion resistant container with a resistant inner liner. Store locked up. Storage

Dispose of container in accordance with local, regional, national and international regulations. Disposal

WHMIS 2015: Health Hazard(s)

not otherwise classified

(HHNOC)

None known

None known

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/Information on ingredients

Mixture

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Chemical name	Common name and synonyms	CAS number	%
Hydrochloric acid		7647-01-0	5 - 10
Citric Acid		77-92-9	3 - 7
Lactic Acid		79-33-4	3 - 7

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret

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 or doctor.

Skin contact IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash

contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. Specific

treatment (see information on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present Eye contact

and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or

Most important symptoms/effects, acute and delayed

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

treatment needed

General information

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. 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

Unsuitable extinguishing

media

Dry chemical. Foam. Carbon dioxide. Fog.

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters Fire-fighting

equipment/instructions

Specific methods **Hazardous combustion**

products

During fire, gases hazardous to health may be formed.

Firefighters should wear full protective clothing including self-contained breathing apparatus.

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials.

May include and are not limited to: Oxides of carbon. Hydrogen chloride.

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. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up

Should not be released into the environment.

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.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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

Avoid prolonged exposure. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a corrosion 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. Store in a well-ventilated place.

8. Exposure controls/Personal protection

Occupational exposure limits

7647-01-0)

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	3 mg/m3	
		2 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm

Canada. New Brunswick Regulation 91-191, as amended

Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7.5 mg/m3	
		5 ppm	

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	туре	value
Hydrochloric acid (CAS 7647-01-0)	Ceiling	2 ppm

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

Components	Туре	Value	
Hydrochloric acid (CAS 7647-01-0)	Ceiling	7 mg/m3	
		5 ppm	
ACGIH			
Components	Туре	Value	
Hydrochloric acid (CAS	TWA	2.98 mg/m3	

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US. ACGIH Threshold Limit Values

ComponentsTypeValueHydrochloric acid (CAS
7647-01-0)Ceiling2 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components
Type
Value

Hydrochloric acid (CAS Ceiling 7 mg/m3 5 ppm

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

Exposure quidelinesChemicals 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.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Impervious gloves. Confirm with reputable supplier first.

Other Wear appropriate chemical resistant clothing. Rubber apron recommended.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134),

CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

Thermal hazards Not available.

General hygiene considerations

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. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

9. Physical and chemical properties

Appearance Clear
Physical state Liquid.
Form Liquid
Color Blue
Odor Lime.

Odor threshold Not available.

pH < '

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Specific gravity Not available.

Flash point None

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Hence/legical flammability or explanity limits.

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 pressureNot available.Vapor densityNot available.

Relative density 1.058

Solubility(ies) Not available.

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Partition coefficient (n-octanol/water)

Not available.

Auto-ignition temperature
Decomposition temperature

Not available. Not available. 200 - 300 cPs

Other information

Viscosity

Pour point Not available.

10. Stability and reactivity

Reactivity

Reacts vigorously with alkaline 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

Do not mix with other chemicals. Do not mix with bleach or any other chemical.

Incompatible materials

Caustics. Oxidizers. Bases. Reducing agents.

Hazardous decomposition products

May include and are not limited to: Oxides of carbon. Hydrogen chloride.

11. Toxicological information

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

Information on likely routes of exposure

Ingestion Causes digestive tract burns.

Inhalation Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns.

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

Test Results

blindness could result.

Species

Information on toxicological effects

Acute toxicity
Components

Components	opecies	rest itesuits
Citric Acid (CAS 77-92-9)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Not available	
Oral		
LD50	Mouse	5400 mg/kg, ECHA
	Rat	11700 mg/kg, ECHA
Hydrochloric acid (CAS 764	7-01-0)	
Acute		
Dermal		
LD50	Not available	
Inhalation		
LC50	Rat	45.6 mg/L, 5 Minutes, ECHA
		8.3 mg/L, 30 Minutes, ECHA
Oral		
LD50	Not available	
Lactic Acid (CAS 79-33-4)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 7.9 mg/L, 4 Hours, ECHA

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Components Species Test Results

Oral

LD50 Rat > 2000 mg/kg, ECHA

Skin corrosion/irritation Causes severe skin burns and eye damage.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Hydrochloric acid (CAS 7647-01-0) Irritant

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

MutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrochloric acid (CAS 7647-01-0) Volume 54 - 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Teratogenicity Not classified.

Specific target organ toxicity - Not classified. single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

EcotoxicityBecause of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems. See below

Ecotoxicological data

Components Species Test Results

Citric Acid (CAS 77-92-9)

Acute

Crustacea EC50 Daphnia magna 120 mg/L, 72 hr

Aquatic Acute

Fish LC50 Bluegill (Lepomis

Bluegill (Lepomis macrochirus) 1516 mg/L, 96 hr

Hydrochloric acid (CAS 7647-01-0)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 282 mg/L, 96 hours

Lactic Acid (CAS 79-33-4)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 180 - 320 mg/L, 48 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

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

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN1760

Proper shipping name Corrosive liquids, n.o.s.

Technical name Hydrochloric acid

Hazard class 8

Subsidiary hazard class Limited Quantity - US

Packing group

Packaging exceptions < 1L - Limited Quantity
Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S.

Technical name Hydrochloric acid

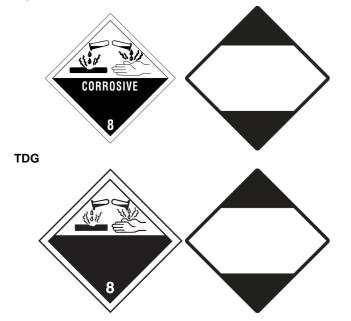
Hazard class

Subsidiary hazard class Limited Quantity - Canada

Packing group II Special provisions 16

Packaging exceptions <1L - Limited Quantity

DOT



15. Regulatory information

contains all the

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Canadian federal regulations

Not listed.

Precursor Control Regulations

Hydrochloric acid (CAS 7647-01-0) Class B

WHMIS 2015 Exemptions Not applicable

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)

Hydrochloric acid (CAS 7647-01-0) Listed.

SARA 304 Emergency release notification

Hydrochloric acid (CAS 7647-01-0) 5000 LBS OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely No

hazardous substance

SARA 311/312 Hazardous Yes

chemical

Classified hazard Corrosive to metal Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Hydrochloric acid7647-01-05 - 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Hydrochloric acid (CAS 7647-01-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Hazardous substance

Hydrochloric acid (CAS 7647-01-0)

Clean Water Act (CWA)

Section 112(r) (40 CFR

68.130)

US state regulations

US - California Hazardous Substances (Director's): Listed substance

Hydrochloric acid (CAS 7647-01-0) Listed.

US - Illinois Chemical Safety Act: Listed substance

Hydrochloric acid (CAS 7647-01-0)

US - Louisiana Spill Reporting: Listed substance

Hydrochloric acid (CAS 7647-01-0) Listed.

US - Minnesota Haz Subs: Listed substance

Hydrochloric acid (CAS 7647-01-0) Listed.

US - North Carolina Toxic Air Pollutants: Listed substance

Hydrochloric acid (CAS 7647-01-0)

US - Texas Effects Screening Levels: Listed substance

Citric Acid (CAS 77-92-9)

Hydrochloric acid (CAS 7647-01-0)

Listed.

Lactic Acid (CAS 79-33-4)

Listed.

US. Massachusetts RTK - Substance List

Hydrochloric acid (CAS 7647-01-0)

US. New Jersey Worker and Community Right-to-Know Act

Hydrochloric acid (CAS 7647-01-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrochloric acid (CAS 7647-01-0)

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US. Rhode Island RTK

Hydrochloric acid (CAS 7647-01-0)

US. California Proposition 65

This product is not subject to warning labeling under the California Proposition 65 regulation.

Inventory status

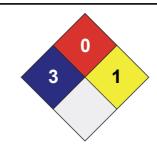
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}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.

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Version # 06

Effective date 28-February-2024

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

Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the

document.

Redbook revision # 11, 12/5/16