

SAFETY DATA SHEET

1. Product and Company Identification

Lime OUT Product identifier Other means of identification Not available

Calcium and Lime Scale Stain Remover Recommended use

None known. Recommended restrictions

Manufacturer information 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)

Supplier See above.

2. Hazards Identification

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

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/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/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

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS 2015: Health Hazard(s) not otherwise classified

(HHNOC)

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

None known

None known

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Hydrochloric acid		7647-01-0	8
Citric Acid		77-92-9	5.5

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Chemical name	Common name and synonyms	CAS number	%	
Lactic Acid		79-33-4	5.5	

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

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. Wash

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

treatment (see information on this label).

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

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

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

doctor/physician.

doctor/priysicia

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

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

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

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

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Dry chemical. Foam. Carbon dioxide. Fog.

Special protective equipment and precautions for firefighters

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

Fire-fighting

equipment/instructions

Specific methods

Hazardous combustion products

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.

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. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. Avoid contact with eyes, skin and clothing. Store locked up. Store in corrosive resistant container with a resistant inner liner. Store in a closed Conditions for safe storage, including any incompatibilities 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 Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components **Type** Value Hydrochloric acid (CAS Ceiling 3 mg/m3 7647-01-0) 2 ppm Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) Components Value **Type** Hydrochloric acid (CAS Ceiling 2 ppm 7647-01-0) Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act) Components Value Type Hydrochloric acid (CAS Ceiling 2 ppm 7647-01-0) Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) Components Type Value Hydrochloric acid (CAS Ceiling 2 ppm 7647-01-0) Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) Components Value Type 7.5 mg/m3 Hydrochloric acid (CAS Ceiling 7647-01-0) 5 ppm Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21) Components Value Type Hydrochloric acid (CAS Ceiling 2 ppm 7647-01-0) US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Type Value Hydrochloric acid (CAS Ceiling 7 mg/m3 7647-01-0) 5 ppm **US. ACGIH Threshold Limit Values** Components Value Type Hydrochloric acid (CAS Ceiling 2 ppm 7647-01-0) **US. NIOSH: Pocket Guide to Chemical Hazards** Components Value Type Hydrochloric acid (CAS 7 mg/m3 Ceiling 7647-01-0) 5 ppm **Biological limit values** No biological exposure limits noted for the ingredient(s). Chemicals listed in section 3 that are not listed here do not have established limit values for **Exposure guidelines** ACGIH or OSHA PEL. Canada - Manitoba OELs: Skin designation 2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)

Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)

Can be absorbed through the skin.

Appropriate engineering

controls

Use only under good ventilation conditions or with respiratory protection.

Individual protection measures, such as personal protective equipment

or drink.

Eye/face protection Wear chemical goggles.

Skin protection

Hand protection Rubber gloves. Confirm with a 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.

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

9. Physical and Chemical Properties

AppearanceClearPhysical stateLiquid.FormLiquidColorBlueOdorLime.

Odor threshold Not available.

pH < 1

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Pour point Not available.

Specific gravity 1.058

Partition coefficient Not available.

(n-octanol/water)

Flash point None

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

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 pressure
Vapor density
Relative density
Solubility(ies)
Auto-ignition temperature
Decomposition temperature
Viscosity
Not available.
Not available.
Not available.
Not available.
200 - 300 cPs

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

Causes digestive tract burns. Ingestion

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

blindness could result.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Citric Acid (CAS 77-92-9)		
Acute		
Dermal	Det	> 2000 mm//m 24 Hours FCHA
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i> LC50	Not available	
Oral	Not available	
LD50	Mouse	5400 mg/kg, ECHA
		5040 mg/kg, HSDB
	Rat	11700 mg/kg, ECHA
		6730 mg/kg, HSDB
Hydrochloric acid (CAS 764	47-01-0)	
Acute	•	
Dermal		
LD50	Mouse	1449 mg/kg
Inhalation LC50	Mouse	13745 ppm, 5 Minutes, ECHA
	Wouse	2644 ppm, 5 Minutes, ECHA
		1108 ppm, 1 Hours
		16.5 mg/L, 5 Minutes, ECHA
	D. I	3.2 mg/L, 5 Minutes, ECHA
	Rat	40989 ppm, 5 Minutes, ECHA
		4701 ppm, 5 Minutes, ECHA
		2810 ppm, 1 Hours, EIGA
		1405 ppm, 4 Hours, EIGA
		45.6 mg/L, 5 Minutes, ECHA
		8.3 mg/L, 5 Minutes, ECHA
Oral	D-M-H	000 markey Could Day years Day of
LD50	Rabbit	900 mg/kg, Sax's Dangerous Properties of Industrial Materials
Lactic Acid (CAS 79-33-4)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg

#7846 Page: 5 of 10 Issue date 15-May-2017 Components Species Test Results

LC50 Rat 7.9 mg/L, 4 Hours

Oral

Inhalation

LD50 Guinea pig 1810 mg/kg

Mouse 4875 mg/kg

Rat 3543 mg/kg

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

Exposure minutes Not available.

Erythema value Not available.

Oedema value Not available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

ACGIH sensitization

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5) Dermal sensitization

Canada - Alberta OELs: Irritant

Acetic acid, phenylmethyl ester (CAS 140-11-4) Irritant Hydrochloric acid (CAS 7647-01-0) Irritant

Canada - Manitoba OELs Hazard: Dermal sensitization

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5) Dermal sensitization

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.

Canada - Manitoba OELs: carcinogenicity

2-PROPANOL (CAS 67-63-0)

BENZYL ACETATE (CAS 140-11-4)

CITRAL, INHALABLE FRACTION AND VAPOR (CAS

Not classifiable as a human carcinogen.

Not classifiable as a human carcinogen.

Not classifiable as a human carcinogen.

5392-40-5)

HYDROGEN CHLORIDE (CAS 7647-01-0)

Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Acetic acid, phenylmethyl ester (CAS 140-11-4) Volume 40, Supplement 7, Volume 71 - 3 Not classifiable as to

carcinogenicity to humans.

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

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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

Test Results Components **Species**

Citric Acid (CAS 77-92-9)

Acute

120 mg/L, 72 hr Crustacea EC50 Daphnia magna

Aquatic

Acute

Fish LC50 Bluegill (Lepomis macrochirus) 1516 mg/L, 96 hr

Hydrochloric acid (CAS 7647-01-0)

Aquatic

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

Lactic Acid (CAS 79-33-4)

Aquatic

EC50 Crustacea 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. No data available. Mobility in soil

Mobility in general 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.

Not available.

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

In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN1760 **UN** number

Corrosive liquids, n.o.s. Proper shipping name HYDROGEN CHLORIDE **Technical name** Hazard class Limited Quantity - US

Packing group

B2, IB2, T11, TP2, TP27 **Special provisions**

Packaging exceptions 154 202 Packaging non bulk Packaging bulk 242

Transportation of Dangerous Goods (TDG - Canada)

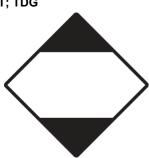
Basic shipping requirements:

UN number UN1760

Proper shipping name CORROSIVE LIQUID, N.O.S. **Technical name** HYDROGEN CHLORIDE **Hazard class** Limited Quantity - Canada

Ш Packing group 16 **Special provisions**

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15. Regulatory Information

Canadian federal regulations

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.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Isopropanol (CAS 67-63-0) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

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. Isopropanol (CAS 67-63-0) Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity

Hydrochloric acid (CAS 7647-01-0) 5000 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

Extremely No

hazardous substance SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Hydrochloric acid7647-01-08

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)

Hydrochloric acid (CAS 7647-01-0)

Clean Water Act (CWA) Section 112(r) (40 CFR Hazardous substance

68.130)

US state regulations

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

Acetic acid, phenylmethyl ester (CAS 140-11-4)

Hydrochloric acid (CAS 7647-01-0)

Listed.

Isopropanol (CAS 67-63-0)

Listed.

US - Illinois Chemical Safety Act: Listed substance

Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

US - Louisiana Spill Reporting: Listed substance

Hydrochloric acid (CAS 7647-01-0) Listed. Isopropanol (CAS 67-63-0) Listed.

US - Minnesota Haz Subs: Listed substance

Acetic acid, phenylmethyl ester (CAS 140-11-4)

Hydrochloric acid (CAS 7647-01-0)

Listed.

Listed.

Listed.

Listed.

US - New Jersey RTK - Substances: Listed substance

Acetic acid, phenylmethyl ester (CAS 140-11-4) Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

US - North Carolina Toxic Air Pollutants: Listed substance

Hydrochloric acid (CAS 7647-01-0)

US - Texas Effects Screening Levels: Listed substance

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)

Acetic acid, phenylmethyl ester (CAS 140-11-4)

Citric Acid (CAS 77-92-9)

Listed.

Hydrochloric acid (CAS 7647-01-0)

Listed.

Isopropanol (CAS 67-63-0)

Listed.

Lactic Acid (CAS 79-33-4)

Listed.

US. Massachusetts RTK - Substance List

Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

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

Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

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

Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

US. Rhode Island RTK

Hydrochloric acid (CAS 7647-01-0) Isopropanol (CAS 67-63-0)

US. California Proposition 65

Not Listed.

Inventory status

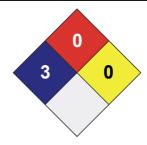
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information







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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Effective date 15-May-2017

Prepared by Other information

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

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

Redbook revision # 11, 12/5/16