


## 1. Identification

<b>Product identifier</b>	<b>PLINK Dishwasher Freshener &amp; Rinse Aid Lemon</b>
<b>Other means of identification</b>	Not available.
<b>Recommended use</b>	Dishwasher deodorizer and rinse aid
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Manufacturer</b>	
<b>Company name</b>	Iron Out dba Summit Brands
<b>Address</b>	6714 Pointe Inverness Way, Suite 200 Fort Wayne, IN 46804-7935 United States
<b>Telephone</b>	260-483-2519
<b>E-mail</b>	Not available.
<b>Emergency phone number</b>	1-800-424-9300 (CHEMTREC)
<b>Supplier</b>	See above.

## 2. Hazard identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Sensitization, skin <span style="float: right;">Category 1</span>
<b>Environmental hazards</b>	Not classified.
<b>WHMIS 2015 defined hazards</b>	Not classified
<b>Label elements</b>	
	
<b>Signal word</b>	Warning
<b>Hazard statement</b>	May cause an allergic skin reaction.
<b>Precautionary statement</b>	
<b>Prevention</b>	Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
<b>Response</b>	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. Specific treatment (see information on this label).
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of container in accordance with local, regional, national and international regulations.
<b>WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)</b>	None known
<b>WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)</b>	None known
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/Information on ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	%
d-Limonene		5989-27-5	3 - 7
2,6-Octadienal, 3,7-dimethyl-		5392-40-5	1 - 5
(e)-3,7-dimethylocta-2,6-dienal		141-27-5	0.1 - 1

Chemical name	Common name and synonyms	CAS number	%
2,6-Octadienal, 3,7-dimethyl,-		106-26-3	0.1 - 1
3,7-dimethyl-6-octen-1-ol		106-22-9	0.1 - 1
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-		127-91-3	0.1 - 1
Cyclohexene, 1-methyl-4-(1-methylethenyl)-		138-86-3	0.1 - 1
Geraniol		106-24-1	0.1 - 1

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

<b>Composition comments</b>	US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.
	CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	May cause an allergic skin reaction. Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	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. Keep out of reach of children.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. 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.
<b>Methods and materials for containment and cleaning up</b>	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
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**Conditions for safe storage, including any incompatibilities**

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure controls/Personal protection

### Occupational exposure limits

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

Components	Type	Value
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	111 mg/m3 20 ppm

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

Components	Type	Value
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	20 ppm

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

Components	Type	Value	Form
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	20 ppm	

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

Components	Type	Value	Form
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	20 ppm	

#### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	112 mg/m3 20 ppm

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 2020. S-15.1 Reg. 10. Table 18)

Components	Type	Value
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	15 minute	30 ppm
	8 hour	20 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)	TWA	5 ppm	Inhalable fraction and vapor.
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	TWA	20 ppm	

### Biological limit values

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

### Exposure guidelines

#### Canada - British Columbia OELs: Skin designation

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5) Can be absorbed through the skin.

#### Canada - Manitoba OELs: Skin designation

2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5) Danger of cutaneous absorption

#### 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)

Danger of cutaneous absorption

### 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. Ensure adequate ventilation.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Not available.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

##### Other

Wear appropriate chemical resistant clothing. As required by employer code.

#### Respiratory protection

Not normally required if good ventilation is maintained and exposure guidelines are not exceeded.

#### Thermal hazards

Not applicable.

### 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. Contaminated work clothing should not be allowed out of the workplace. When using do not eat or drink.

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## 9. Physical and chemical properties

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Appearance	Lemon Shape
Physical state	Solid.
Form	Solid.
Color	Yellow
Odor	Lemon
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Specific gravity	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
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	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Pour point	Not available.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

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## 10. Stability and reactivity

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Reactivity	This product may react with strong oxidizing agents.
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<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

## 11. Toxicological information

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

**Information on likely routes of exposure**

<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	May cause an allergic skin reaction.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause an allergic skin reaction. Dermatitis. Rash.

**Information on toxicological effects**

**Acute toxicity** See below.

Components	Species	Test Results
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	6800 mg/kg, ECHA/HSDB
2,6-Octadienal, 3,7-dimethyl,- (CAS 106-26-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	2000 mg/kg
<i>Inhalation</i>		
LC50		
<i>Oral</i>		
LD50	Rat	5000 mg/kg
3,7-dimethyl-6-octen-1-ol (CAS 106-22-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	2650 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Rat	0.4 mg/L, 4 hr, ECHA
<i>Oral</i>		
LD50	Rat	3450 mg/kg, ECHA
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	3700 mg/kg, ECHA

Components	Species	Test Results
Cyclohexene, 1-methyl-4-(1-methylethenyl)- (CAS 138-86-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	5 g/kg, HSDB
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	5.6 g/kg, HSDB
	Rat	5 g/kg, HSDB
d-Limonene (CAS 5989-27-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg, ECHA
Geraniol (CAS 106-24-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	3600 mg/kg, ECHA
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>ACGIH sensitization</b>		
Citral, inhalable fraction and vapor (CAS 5392-40-5)	Dermal sensitization	
Turpentine and selected monoterpenes (CAS 127-91-3)	Dermal sensitization	
<b>Canada - Alberta OELs: Irritant</b>		
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	Irritant	
<b>Canada - Manitoba OELs Hazard: Dermal sensitization</b>		
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)	Dermal sensitization	
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	Dermal sensitization	
<b>Canada - Saskatchewan OELs Hazard Data: Sensitizer</b>		
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3)	Sensitizer.	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
<b>Skin sensitization</b>	May cause an allergic skin reaction.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure. See below.	

## IARC Monographs. Overall Evaluation of Carcinogenicity

d-Limonene (CAS 5989-27-5)

Volume 56, Volume 73 - 3 Not classifiable as to carcinogenicity to humans.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Teratogenicity</b>	Not available.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

**Ecotoxicity** See below

### Ecotoxicological data

Components	Species	Test Results
2,6-Octadienal, 3,7-dimethyl- (CAS 5392-40-5)		
Algae	IC50	Algae 16 mg/L, 72 Hours
Crustacea	EC50	Daphnia 7 mg/L, 48 Hours
d-Limonene (CAS 5989-27-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia pulex) 69.6 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/L, 96 hours
Geraniol (CAS 106-24-1)		
<b>Aquatic</b>		
Fish	LC50	Brown trout (Salmo trutta) 2.3 - 3 mg/L, 96 hours

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

**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** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**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** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 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)

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 HPR and the SDS contains all the information required by the HPR.

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

Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3) 1 TONNES

d-Limonene (CAS 5989-27-5) 1 TONNES

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**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)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance** No

**Classified hazard categories** Respiratory or skin sensitization

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

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

Not regulated.

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

Not regulated.

**US state regulations** See below

**US - Texas Effects Screening Levels: Listed substance**

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

3,7-dimethyl-6-octen-1-ol (CAS 106-22-9) Listed.

Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (CAS 127-91-3) Listed.

Cyclohexene, 1-methyl-4-(1-methylethenyl)- (CAS 138-86-3) Listed.

d-Limonene (CAS 5989-27-5) Listed.

Geraniol (CAS 106-24-1) Listed.

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

Cyclohexene, 1-methyl-4-(1-methylethenyl)- (CAS 138-86-3)

**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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

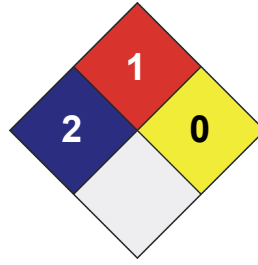
\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)



## 16. Other information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		



### Disclaimer

The information in the safety data sheet was written by Dell Tech Laboratories Ltd. (www.delltech.com) based on the best knowledge and experience currently available. 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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### Version #

01

### Effective date

26-October-2022

### 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.