Safety Data Sheet



## **SECTION 1: Product and company identification**

Product name : Citra Fresh Product code : 0377

Company : Total Solutions

P.O. Box 240014

Milwaukee, WI 53224 - USA

T 800-743-6417 athea.com

Contact:Technical Department

Emergency number : Chemtrec: 1-800-424-9300

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

GHS-US classification

Flam. Liq. 4 H227 Skin Irrit. 2 H315 Skin Sens. 1 H317 Asp. Tox. 1 H304

## 2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US)





GHS07 GHS08

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Combustible liquid

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing mist, spray. Wash thoroughly after handling

Contaminated work clothing must not be allowed out of the workplace.

Wear protective clothing, eye protection, face protection. If swallowed: Immediately call a POISON CENTER, a doctor.

If on skin: Wash with plenty of soap and water.

Do NOT induce vomiting.

If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

In case of fire: Use Water spray, ABC-powder, dry extinguishing powder, foam to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container to comply with local/regional/national/international regulations...

### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS US)

Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
d-Limonene	(CAS-No.) 5989-27-5	15 – 30	Flam. Liq. 3, H226
(Solvent)			Skin Irrit. 2, H315
			Skin Sens. 1, H317
			Asp. Tox. 1, H304

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All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Risk of lung oedema.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Explosion hazard : No direct explosion hazard.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

## 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective

equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to

prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

Avoid breathing mist, vapours, spray.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent

migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

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Hygiene measures

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## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Additional hazards when processed Precautions for safe handling

Not expected to present a significant hazard under anticipated conditions of normal use.

Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin

and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### Conditions for safe storage, including any incompatibilities

Keep in a cool, well-ventilated place away from heat. Technical measures Store in a well-ventilated place. Keep cool. Store locked up. Storage conditions

Packaging materials Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### d-Limonene (5989-27-5)

Not applicable

#### **Exposure controls**

Appropriate engineering controls

Ensure good ventilation of the work station.

Personal protective equipment Gloves. Safety glasses. Protective clothing. Wash hands and other exposed areas with mild soap and

water before eating, drinking or smoking and when leaving work.









Protective gloves. Hand protection Eye protection Safety glasses.

Skin and body protection Wear suitable protective clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Environmental exposure controls Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state Liquid Appearance clear, orange liquid

Odour Citrus scent Odour threshold No data available рΗ No data available Melting point Not applicable Freezing point No data available **Boiling point** No data available

Flash point 73 °C No data available Relative evaporation rate (butylacetate=1) Flammability No data available Explosive limits No data available Explosive properties No data available Oxidising properties No data available Vapour pressure No data available Relative density No data available Relative vapour density at 20°C No data available Density 0.786 g/ml Solubility No data available No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available

Partition coefficient n-octanol/water (Log Kow) Auto-ignition temperature Decomposition temperature No data available Viscosity No data available Viscosity, kinematic < 20 cSt

No data available

Viscosity, dynamic

VOC content

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## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

d-Limonene (5989-27-5)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat,
	Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal,
	7 day(s))

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

d-Limonene (5989-27-5)

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is

expected to be an inhalation hazard.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : None under normal conditions.

Symptoms/effects after ingestion : Risk of lung oedema.

## **SECTION 12: Ecological information**

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Ecology - general	<ul> <li>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</li> </ul>
d-Limonene (5989-27-5)	

d-Limonene (5989-27-5)		
LC50 - Fish [1]	720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system,	
	Fresh water, Experimental value)	
EC50 - Crustacea [1]	0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static	
	system, Fresh water, Experimental value, GLP)	
LC50 - Fish [2]	702 μg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna	

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12.2. Persistence and degradability	
d-Limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water.
ThOD	3.29 g O₂/g substance

12.3. Bioaccumulative potential	
d-Limonene (5989-27-5)	
BCF - Fish [1]	864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation Disposal must be done according to official regulations.

Dispose of contents/container in accordance with licensed collector's sorting instructions. Waste treatment methods

Sewage disposal recommendations Disposal must be done according to official regulations. Product/Packaging disposal Disposal must be done according to official regulations.

recommendations

Additional information : Do not re-use empty containers.

## **SECTION 14: Transport information**

### Department of Transportation (DOT)

Transport document description (DOT) NA1993 Combustible liquid, n.o.s. Terpene Hydrocarbons, Comb Liq, III

UN-No.(DOT) NA1993

Combustible liquid, n.o.s. Proper Shipping Name (DOT) Terpene Hydrocarbons Comb Liq - Combustible liquid Class (DOT)

Packing group (DOT) III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) 203

DOT Packaging Bulk (49 CFR 173.xxx) 241

**DOT Symbols** D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a

technical name

DOT Special Provisions (49 CFR 172.102) 148,IB3,T1,TP1 150

DOT Packaging Exceptions (49 CFR

173.xxx)

**DOT Quantity Limitations Passenger** : 60 L aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft : 220 L only (49 CFR 175.75)

**DOT Vessel Stowage Location** : A

## **Additional information**

: This product is classified as a combustible liquid and is exempt from the U.S. DOT's Hazardous Other information Materials Regulations when shipped in non-bulk packages. If any alteration of packaging, product, or

mode of transportation is further intended, different shipping names and labeling may be required.

## ADR

No additional information available

## Transport by sea

UN-No. (IMDG)

Proper Shipping Name (IMDG) FLAMMABLE LIQUID, N.O.S. Class (IMDG) 3 - Flammable liquids

Packing group (IMDG) III - substances presenting low danger

## Air transport

UN-No. (IATA)

Proper Shipping Name (IATA) Flammable liquid, n.o.s. Class (IATA) 3 - Flammable Liquids : III - Low danger Packing group (IATA)

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

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All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

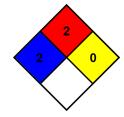
NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation

or residual injury.

NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient

temperatures before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



## Prepared by: Technical Department

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.

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