



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 985-003  
**Product name** Orange Citrus Crazy Clean  
**Effective date** 04-Jan-2012  
**Company information** Sprayway, Inc.  
1005 Westgate  
Addison, IL 60101 United States  
**Company phone** General Assistance 630-543-7600  
**Emergency telephone US** 800-424-9300  
**Version #** 16  
**Supersedes date** 15-Dec-2009

## 2. Hazards Identification

**Emergency overview** CONTENTS UNDER PRESSURE. Aerosol. Irritating to eyes. Prolonged exposure may cause chronic effects.

**Potential health effects**

**Eyes** Causes eye irritation.

**Skin** Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation** Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

**Target organs** Central nervous system.

**Chronic effects** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Prolonged skin contact may defat the skin and produce dermatitis.

**Signs and symptoms** Narcosis. Defatting of the skin. Irritation. Sensitization

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
d-Limonene	5989-27-5	3 - 5
Propane	74-98-6	1 - 3
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels		> 90

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Remove contact lenses, if present and easy to do.

**Skin contact** Immediately take off all contaminated clothing. Wash off with warm water and soap.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

**Ingestion** In the unlikely event of swallowing contact a physician or poison control center.

## 5. Fire Fighting Measures

**Flammable properties** Vapor or gas may spread to distant ignition sources and flash back.

**Extinguishing media**

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Protection of firefighters****Protective equipment and precautions for firefighters**

In the event of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

<b>6. Accidental Release Measures</b>
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**Methods for containment**

Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up**

Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

<b>7. Handling and Storage</b>
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**Handling**

Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid prolonged exposure.

**Storage**

Level 1 Aerosol.  
Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Level 1 Aerosol (NFPA 30B) Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

<b>8. Exposure Controls / Personal Protection</b>
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**Exposure limits****ACGIH****Components****CAS #****TWA****STEL****Ceiling**

Propane

74-98-6

1000 ppm

Not established

Not established

n-Butane

106-97-8

1000 ppm

Not established

Not established

**OSHA****Components****CAS #****TWA****STEL****Ceiling**

Propane

74-98-6

1000 ppm

Not established

Not established

**Personal protective equipment****Eye / face protection**

Not normally needed.

**Skin protection**

Wear appropriate chemical resistant clothing. Protective gloves. Not normally needed.

**Respiratory protection**

No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

<b>9. Physical &amp; Chemical Properties</b>
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**Appearance**

Compressed liquefied gas.

**Boiling point**

204.8 °F (96.1 °C) estimated

**Color**

White.

**Density**

0.9544 g/cm<sup>3</sup> estimated

**Flammability (HOC)**

4.6876 kJ/g estimated

**Flash back**

No

**Flash point**

-156 °F (-104.4 °C) Propellant

**Form**

Liquid. Aerosol.

**Freezing point**

Not available

**Odor**

fruity

**pH**

9 - 10

**Physical state**

Liquid.

**Pressure**

70 - 90 psig @ 70F

Solubility Partially  
Specific gravity 0.9545 estimated

## 10. Chemical Stability & Reactivity Information

Conditions to avoid Heat, flames and sparks.  
Incompatible materials None known.

## 11. Toxicological Information

Acute effects Acute LD50: 43352 mg/kg estimated, Rat, Dermal

### Component analysis - LD50

#### Toxicology Data - Selected LD50s and LC50s

d-Limonene	5989-27-5	Oral LD50 Rat 4400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h

Sensitization May cause sensitization by skin contact.

Teratogenicity Not expected to be hazardous by OSHA criteria.

## 12. Ecological Information

Ecotoxicity LC50 12389 mg/L, Fish, 96.00 Hours,  
EC50 49786 mg/L, Daphnia, 48.00 Hours,  
IC50 11489 mg/L, Algae, 72.00 Hours,  
Components of this product have been identified as having potential environmental concerns.

## 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

Disposal instructions Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

Proper shipping name	Aerosols
Hazard class	2.1
UN number	UN1950
Additional information:	
Special provisions	153, N82
Packaging exceptions	LTD QTY
Packaging non bulk	None
Packaging bulk	None



### IMDG

#### Basic shipping requirements:

Proper shipping name	AEROSOLS
Hazard class	2.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY
Item	5F
Labels required	None
Transport Category	2



**IATA****Basic shipping requirements:**

**Proper shipping name** Aerosols, flammable  
**Hazard class** 2.1  
**UN number** 1950  
**Additional information:**  
**Packaging exceptions** LTD QTY  
**Labels required** 2.1



<b>15. Regulatory Information</b>
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**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
 CERCLA/SARA Hazardous Substances - Not applicable.

**Occupational Safety and Health Administration (OSHA)**

**29 CFR 1910.1200 hazardous chemical** Yes

**CERCLA (Superfund) reportable quantity**

None

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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Hazard categories (311/312)** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	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)

**State regulations****U.S. - Pennsylvania - RTK (Right to Know) List**

n-Butane	106-97-8	Present
Propane	74-98-6	Present

<b>16. Other Information</b>
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**Further information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 1  
 Flammability: 2  
 Physical hazard: 0  
 Personal protection:

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication, The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**MSDS sections updated**

Product and Company Identification: Product Review  
Transport Information: Product Shipping Name/Packing Group

**Prepared by**

Regulatory Compliance