



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.

6. Accidental Release Measures**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.

7. Handling and Storage**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.

8. Exposure Controls / Personal Protection**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.

9. Physical & Chemical Properties**Appearance**

Compressed liquefied gas.

Boiling point

204.8 °F (96.1 °C) estimated

Color

White.

Density

0.9544 g/cm3 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 |

**15. Regulatory Information**

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 |

16. Other Information

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