

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 164

Product name Bright Citrus Air Freshener & Deordorizer

Effective date 02-Mar-2009

Company information Claire Manufacturing

500 Vista Ave.

Addison, IL 60101 United States

Company phone General Assistance 630-543-7600

Emergency telephone US 800-424-9300 Emergency telephone outside US 703-527-3887

Version # 04

Supersedes date 11-Apr-2008

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when

exposed to heat or flame.

Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Skin contact. Ingestion.

Eyes Health injuries are not known or expected under normal use.

Skin Prolonged or repeated contact can result in defatting and drying of the skin which may

result in skin irritation and dermatitis (rash).

InhalationIntentional misuse by concentrating and inhaling the product can be harmful or fatal.IngestionExposure by ingestion of an aerosol is unlikely. Components of the product may be

absorbed into the body by ingestion.

Target organs Central nervous system. Liver.

Chronic effects Liver injury may occur. May cause central nervous system disorder (e.g., narcosis

involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision)

and/or damage.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Dimethyl Ether	115-10-6	8 - 10
Isobutane	75-28-5	5 - 8
Ethyl Alcohol	64-17-5	3 - 5
Propane	74-98-6	1 - 3
Non-hazardous and other components below reportable levels		60 - 80

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops or persists.

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

medical attention if irritation develops or persists.

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

Ingestion Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur,

call a poison control center immediately.

5. Fire Fighting Measures

Flammable properties

Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Protective equipment and precautions for firefighters Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental Release Measures

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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

Should not be released into the environment. 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 handle or store near an open flame, heat or other sources of ignition. Use only in area provided with appropriate exhaust ventilation. 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. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

Callina

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS#	IWA	SIEL	Celling
Isobutane	75-28-5	1000 ppm	Not established	Not established
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection

Wear chemical goggles.

Skin protection

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant

clothing.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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** 163.4 °F (72.8 °C) estimated

Color White.

Flammability (HOC) 8.3602 kJ/g estimated

Flash back No

Flash point -156 °F (-104.4 °C)

FormAerosol.OdorCharacteristic.pH10.06 - 11.06

Physical state Liquid.

Pressure 67 - 77 psig @70F

Solubility Partially Specific gravity 0.88

10. Chemical Stability & Reactivity Information

Chemical stabilityMay form explosive peroxides.Conditions to avoidHeat, flames and sparks.Hazardous decomposition productsMay include oxides of sulphur.

11. Toxicological Information

SensitizationNot expected to be hazardous by OSHA criteria.Reproductive effectsNot expected to be hazardous by OSHA criteria.TeratogenicityNot expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

LC50 2826 mg/L estimated, Fish, 96.00 Hours, EC50 49705 mg/L estimated, Daphnia, 48.00 Hours, IC50 7500 mg/L estimated, Algae, 72.00 Hours,

13. Disposal Considerations

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

Disposal instructionsContents under pressure. Do not puncture, incinerate or crush. Dispose of this material

and its container at hazardous or special waste collection point. 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 Consumer commodity

Hazard class ORM-D Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS, flammable

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels requiredNoneTransport Category2





Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class2.1UN number1950

Additional information:

Packaging exceptions LTD QTY
Labels required None





15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Yes

Hazard categories Immediate Hazard - Yes

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

Section 302 extremely No

hazardous substance

Section 311 hazardous chemical Yes

Inventory status

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

State regulations

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

 Dimethyl Ether
 115-10-6
 Present

 Ethyl Alcohol
 64-17-5
 Present

 Isobutane
 75-28-5
 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

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.

MSDS sections updated Product and Company Identification: Product and Company Identification

Hazards Identification: Emergency overview

Handling and Storage: Storage Regulatory Information: United States