



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 186
Product name Tropic Breeze II Air Freshener & Deodorizer
Effective date 06-Sep-2011
Company information Claire Mfg.
1005 Westgate
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 28-Feb-2008

2. Hazards Identification

Emergency overview Aerosol. FLAMMABLE
CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames.
Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Inhalation.

Eyes Contact may irritate or burn eyes.

Skin 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. Prolonged inhalation may be harmful.

Ingestion Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage.

Target organs Central nervous system. Respiratory system.

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

Signs and symptoms Discomfort in the chest. Narcosis. Cyanosis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|------------|---------|
| Propane | 74-98-6 | 30 - 40 |
| n-Butane | 106-97-8 | 30 - 40 |
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | 20 - 30 |
| Ethyl Alcohol | 64-17-5 | 3 - 5 |
| Isopropyl Alcohol | 67-63-0 | 0.5 - 1 |
| Non-hazardous and other components below reportable levels | | 1 - 2.5 |

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. Get medical attention immediately.

Skin contact Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician if symptoms develop or persist.

Ingestion

Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

Symptoms may be delayed.

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| 5. Fire Fighting Measures |
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Flammable properties

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

Extinguishing media**Suitable extinguishing media**

Water fog. Foam. Dry chemical. Carbon dioxide (CO2).

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

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.

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| 6. Accidental Release Measures |
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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.

Methods for cleaning up

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

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| 7. Handling and Storage |
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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. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Storage

Level 3 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children.

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| 8. Exposure Controls / Personal Protection |
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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

Ethyl Alcohol

64-17-5

1000 ppm

1000 ppm

Not established

Isopropyl Alcohol

67-63-0

200 ppm

400 ppm

Not established

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

Propane

74-98-6

1000 ppm

Not established

Not established

Ethyl Alcohol

64-17-5

1000 ppm

Not established

Not established

Isopropyl Alcohol

67-63-0

400 ppm

Not established

Not established

Personal protective equipment**Eye / face protection**

Wear chemical goggles.

Skin protection

Not normally needed.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical & Chemical Properties

| | |
|--------------------|-----------------------------------|
| Appearance | Not available |
| Boiling point | 105.8 °F (41.1 °C) estimated |
| Color | Colorless. |
| Density | 0.607 g/cm ³ estimated |
| Flammability (HOC) | 41.84 kJ/g estimated |
| Flash back | No |
| Flash point | -156 °F (-104.4 °C) estimated |
| Form | Liquid. Aerosol. |
| Freezing point | Not available |
| Odor | fruity |
| pH | Not applicable |
| Physical state | Liquid. |
| Pressure | 65 - 75 psig @ 70F |
| Solubility | Negligible |
| Specific gravity | 0.6071 estimated |

10. Chemical Stability & Reactivity Information

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| Chemical stability | Risk of ignition. Stable at normal conditions. |
| Conditions to avoid | Heat, flames and sparks. |
| Hazardous decomposition products | May include oxides of nitrogen. |

11. Toxicological Information

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|---------------|--|
| Acute effects | Acute LD50: 6872 mg/kg estimated, Rat, Dermal Acute LC50: 17 mg/l/4h estimated, Rat, Inhalation |
|---------------|--|

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

| | | |
|-------------------------------------|------------|--|
| Ethyl Alcohol | 64-17-5 | Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h |
| Isopropyl Alcohol | 67-63-0 | Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 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 |
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg |

Carcinogenicity

IARC - Group 1 (Carcinogenic to Humans)

| | | |
|---------------|---------|--|
| Ethyl Alcohol | 64-17-5 | Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in preparation] (in alcoholic beverages) |
|---------------|---------|--|

12. Ecological Information

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| Ecotoxicity | LC50 155 mg/L, Fish, 96.00 Hours, Components of this product have been identified as having potential environmental concerns. |
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13. Disposal Considerations

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| 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 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 exceptions | LTD QTY |
| Item | 5F |
| Labels required | 2.1 |
| 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 |



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.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

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|-------------------|---------|--|
| Isopropyl Alcohol | 67-63-0 | 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification) |
|-------------------|---------|--|

Occupational Safety and Health Administration (OSHA)

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|-------------------------------------|-----|
| 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 - Yes 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) | No |
| Europe | European Inventory of New and Existing Chemicals (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| 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**

| | | |
|-------------------------------------|------------|----------------------|
| Ethyl Alcohol | 64-17-5 | Present |
| Isopropyl Alcohol | 67-63-0 | Environmental hazard |
| n-Butane | 106-97-8 | Present |
| Propane | 74-98-6 | Present |
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | Present |

16. Other Information**Further information**

HMIS Trademark Statement

HMIS® ratings

Health: 1*
 Flammability: 3
 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

Hazards Identification: Emergency overview
 Hazards Identification: Eyes
 Hazards Identification: Target organs
 Hazards Identification: Chronic effects
 Hazards Identification: Main symptoms
 Handling and Storage: Storage
 Exposure Controls / Personal Protection: Respiratory protection
 Exposure Controls / Personal Protection: Skin and body protection
 Chemical Stability & Reactivity Information: Incompatibility
 Toxicological Information: Reproductivity
 Transport Information: Product Shipping Name/Packing Group

Prepared by

Regulatory Compliance