



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 157  
**Material name** Juniper and Peony Metered Air Freshener  
**Revision date** 11-15-2013  
**Company information** Claire Manufacturing Co.  
1005 S. Westgate Drive  
Addison, IL 60101 United States  
**Company phone** General Assistance 1-630-543-7600  
**Emergency telephone US** 1-866-836-8855  
**Emergency telephone outside US** 1-952-852-4646  
**Version #** 02  
**Supersedes date** 11-15-2013

## 2. Hazards Identification

**Emergency overview** DANGER  
  
CONTENTS UNDER PRESSURE.  
Aerosol. Pressurized container may explode when exposed to heat or flame. May cause flash fire or explosion.  
  
Will be easily ignited by heat, spark or flames. Harmful in contact with eyes. Prolonged exposure may cause chronic effects.  
  
**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).  
**Potential health effects**  
**Routes of exposure** Inhalation. Ingestion. Skin contact. Eye contact.  
**Eyes** Eye contact may result in corneal injury. Contact with eyes may cause irritation.  
**Skin** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**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. Components of the product may be absorbed into the body by ingestion.  
**Target organs** Central nervous system. Respiratory system.  
**Chronic effects** Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.  
**Signs and symptoms** Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Conjunctivitis. Skin irritation. Defatting of the skin. Rash.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Acetone	67-64-1	60 - 80
Butane	106-97-8	10 - 20
Propane	74-98-6	10 - 20
Other components below reportable levels		2.5 - 10

## 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 immediately.  
**Skin contact** Wash off with warm water and soap. Get medical attention if irritation develops and persists.

<b>Inhalation</b>	If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
<b>Ingestion</b>	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).
<b>5. Fire Fighting Measures</b>	
<b>Flammable properties</b>	Flammable by OSHA criteria. Heat may cause the containers to explode. Vapors may travel considerable distance to a source of ignition and flash back. Runoff to sewer may cause fire or explosion hazard.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Powder. Alcohol resistant foam. Water. Carbon dioxide (CO2).
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Protection of firefighters</b>	
<b>Protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
<b>Environmental precautions</b>	Do not contaminate water.
<b>Methods for containment</b>	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. Prevent entry into waterways, sewer, basements or confined areas.
<b>Methods for cleaning up</b>	Should not be released into the environment. Stop the flow of material, if this is without risk. Isolate area until gas has dispersed. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

## 7. Handling and Storage

<b>Handling</b>	Vapors may form explosive mixtures with air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Use only in area provided with appropriate exhaust ventilation.
<b>Storage</b>	Contents under pressure. The pressure in sealed containers can increase under the influence of heat. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep in an area equipped with sprinklers. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS). Level 3 Aerosol.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### ACGIH Biological Exposure Indices

Components	Type	Value
Acetone (CAS 67-64-1)	BEI	50 mg/l

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

### Engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal protective equipment

**Eye / face protection** Do not get in eyes. Wear safety glasses with side shields (or goggles).

**Skin protection** Wear appropriate chemical resistant clothing. Chemical resistant gloves.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**General hygiene considerations** When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Not available.
<b>Auto-ignition temperature</b>	825.46 °F (440.81 °C) estimated
<b>Boiling point</b>	95.38 °F (35.21 °C) estimated
<b>Color</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	8.5 % estimated
<b>Flammability limits in air, lower, % by volume</b>	2.1 % estimated
<b>Flash point</b>	-156.00 °F (-104.44 °C) Propellant estimated
<b>Form</b>	Aerosol.
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Physical state</b>	Gas.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	0.698 estimated
<b>Vapor pressure</b>	55 psig @70F estimated
<b>Other data</b>	
<b>Heat of combustion</b>	32.55 kJ/g estimated

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Risk of ignition.

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point.

**Hazardous decomposition products**

No hazardous decomposition products are known.

**Possibility of hazardous reactions**

Hazardous polymerization does not occur.

**11. Toxicological Information****Toxicological data**

Product	Species	Test Results
Juniper and Peony Metered Air Freshener (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	28720.9414 mg/kg, estimated 28.7209 ml/kg, estimated
<i>Inhalation</i>		
LC50	Mouse	5758.8999 mg/l, 2 Hours, estimated
	Rat	10836.0977 mg/l, 15 Minutes, estimated 5572.583 mg/l, 4 Hours, estimated 2619.114 mg/l/4h, estimated 71.946 mg/l, 8 Hours, estimated
<i>Oral</i>		
LD50	Mouse	4308.1411 mg/kg, estimated
	Rabbit	7668.4912 mg/kg, estimated
	Rat	8329.0732 mg/kg, estimated
<i>Other</i>		
LD50	Mouse	1862.5531 mg/kg, estimated
	Rat	7898.2588 mg/kg, estimated
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Acetone (CAS 67-64-1)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	20000 mg/kg 20 ml/kg
<i>Inhalation</i>		
LC50	Rat	76 mg/l, 4 Hours 50.1 mg/l, 8 Hours
<i>Oral</i>		
LD50	Mouse	3000 mg/kg
	Rabbit	5340 mg/kg
	Rat	5800 mg/kg
<i>Other</i>		
LD50	Mouse	1297 mg/kg
	Rat	5500 mg/kg
Butane (CAS 106-97-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l, 4 Hours
Propane (CAS 74-98-6)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	> 1442.847 mg/l, 15 Minutes

Components	Species	Test Results
		658 mg/l/4h
* Estimates for product may be based on additional component data not shown.		
Local effects	Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.	
Chronic effects	Hazardous by OSHA criteria. Prolonged inhalation may be harmful. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged exposure may cause chronic effects.	
Carcinogenicity		
ACGIH Carcinogens		
Acetone (CAS 67-64-1)	A4 Not classifiable as a human carcinogen.	
Neurological effects	Hazardous by OSHA criteria.	
Further information	Symptoms may be delayed.	

## 12. Ecological Information

### Ecotoxicological data

Product		Species	Test Results
Juniper and Peony Metered Air Freshener (CAS Mixture)			
Crustacea	EC50	Daphnia	7406.8438 mg/l, 48 hours, estimated
Fish	LC50	Fish	12114.334 mg/l, 96 hours, estimated
Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>Ecotoxicity</b>	Contains a substance which causes risk of hazardous effects to the environment.
<b>Environmental effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulation / Accumulation</b>	

#### Bioaccumulative potential

##### Octanol/water partition coefficient log Kow

Acetone	-0.24
Butane	2.89
Propane	2.36

#### Partition coefficient

Acetone	-0.24
Butane	2.89
Propane	2.36

## 13. Disposal Considerations

<b>Waste codes</b>	D001: Waste Flammable material with a flash point <140 F The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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#### US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1)	U002
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<b>Disposal instructions</b>	Contents under pressure. Do not puncture, incinerate or crush. Incinerate the material under controlled conditions in an approved incinerator. 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.
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**Waste from residues / unused products**

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. Transport Information****DOT****Basic shipping requirements:**

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	Aerosols, flammable
<b>Hazard class</b>	2.1
<b>Special precautions</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>Additional information:</b>	
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

**IATA**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, flammable
<b>Transport hazard class(es)</b>	2.1
<b>Labels required</b>	2.1
<b>ERG code</b>	10L
<b>Special precautions for user</b>	Read safety instructions, MSDS and emergency procedures before handling.
<b>Packaging Exceptions</b>	LTD QTY

**IMDG**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	AEROSOLS
<b>Transport hazard class(es)</b>	2.1
<b>Labels required</b>	None
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.
<b>Packaging Exceptions</b>	LTD QTY

**DOT****IATA; IMDG**

## 15. Regulatory Information

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1)	150 kg by weight 50 gallons by volume 6532
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#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)	35 % weight/volumn
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#### DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1)	6532
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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA (Superfund) reportable quantity

Acetone: 5000

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

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No
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<b>Section 302 extremely hazardous substance</b>	No
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<b>SARA 311/312 Hazardous chemical</b>	No
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### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (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
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### State regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### US - New Jersey RTK - Substances: Listed substance

Acetone (CAS 67-64-1)	Listed.
Butane (CAS 106-97-8)	Listed.
Propane (CAS 74-98-6)	Listed.

#### US. Pennsylvania RTK - Hazardous Substances

Acetone (CAS 67-64-1)	Listed.
Butane (CAS 106-97-8)	Listed.
Propane (CAS 74-98-6)	Listed.

## 16. Other Information

### Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. 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.

**This data sheet contains changes from the previous version in section(s):**

Product and Company Identification: Product and Company Identification