

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** Microburst Air Neutralizer - Purifying Spa  
**Version #** 01  
**Issue date** 02-02-2013  
**Revision date** -  
**Supersedes date** -  
**CAS #** Mixture  
**Product use** Air freshener.  
**Manufacturer/Supplier** Rubbermaid Commercial Products LLC  
3124 Valley Avenue  
Winchester, VA 22601-2694  
Contact Person: Regulatory Manager  
**Telephone number:** (540) 667-8700  
**Emergency** 24-Hour Emergency: INFOTRAC: 1-800-535-5053

## 2. Hazards Identification

**Physical state** Liquid, Gas.  
**Appearance** Aerosol (clear liquid).  
**Emergency overview** DANGER!

Flammable aerosol - may cause flash fire. Contents under pressure. Liquefied gas can cause frostbite and corrosive injury to eyes and skin.

Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**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** Contact may irritate or burn eyes. Eye contact may result in corneal injury. Direct contact with liquefied gas may cause eye damage from frostbite.

**Skin** Irritating to skin. May cause sensitization by skin contact. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Contact with evaporating liquid may cause frostbite or freezing of skin.

**Inhalation** Inhalation of vapors or mists of the product may be irritating to the respiratory system. Prolonged inhalation may be harmful. Vapors may cause drowsiness and dizziness.

**Ingestion** Irritating. May cause nausea, stomach pain and vomiting.

**Target organs** Eyes. Skin. Respiratory system. Central nervous system. Liver. Kidneys.

**Chronic effects** Chronic exposure may cause liver and kidney damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

**Potential environmental effects** Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
1,1-Difluoroethane	75-37-6	55 - 60
Ethanol	64-17-5	10 - 15
2-Methylpentane-2,4-diol	107-41-5	5 - 10
Dipropylene glycol	25265-71-8	5 - 10
2,6-Dimethyl-7-octen-2-ol	18479-58-8	1 - 5

Components	CAS #	Percent
Acetyl cedrene	32388-55-9	1 - 5

**Composition comments** Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First Aid Measures

##### First aid procedures

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If frostbite occurs, immediately flush eyes with plenty of warm water (not exceeding 105°F/41°C) for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If frostbite occurs, immerse affected area in warm water (not exceeding 105°F/41°C). Keep immersed for 20 to 40 minutes. Get medical attention immediately. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.
<b>Inhalation</b>	If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.
<b>Ingestion</b>	Rinse mouth thoroughly. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.

#### 5. Fire Fighting Measures

**Flammable properties** Flammable aerosol - may cause flash fire. Aerosol containers can explode when heated, due to excessive pressure build-up. Aerosol cans involved in fire may rupture and become projectiles.

##### Extinguishing media

<b>Suitable extinguishing media</b>	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use a solid water stream as it may scatter and spread fire.

##### Protection of firefighters

<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
<b>Protective equipment and precautions for firefighters</b>	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire fighting equipment/instructions** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Containers should be cooled with water to prevent vapor pressure build up. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Water runoff can cause environmental damage.

**Specific methods** In the event of fire and/or explosion do not breathe fumes.

**Hazardous combustion products** Carbon monoxide. Carbon Dioxide. Hydrogen fluoride.

#### 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**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. Prevent entry into waterways, sewer, basements or confined areas.

## Methods for cleaning up

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system. Dike far ahead of spill for later disposal.

## Other information

Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

### Handling

Wear personal protective equipment. Avoid breathing mists or aerosols of this product. Avoid prolonged exposure. Use with adequate ventilation. Avoid contact with skin and eyes. Wash thoroughly after handling. When using, do not eat, drink or smoke. Pressurized container: Do not pierce or burn, even after use. 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 handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not use if spray button is missing or defective. Avoid release to the environment.

### Storage

Contents under pressure. The pressure in sealed containers can increase under the influence of heat. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. Keep container tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	25 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm

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

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	121 mg/m3 25 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3 1000 ppm

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	25 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	25 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	121 mg/m3
Ethanol (CAS 64-17-5)	TWA	25 ppm 1880 mg/m3 1000 ppm

**Mexico. Occupational Exposure Limit Values**

Components	Type	Value
2-Methylpentane-2,4-diol (CAS 107-41-5)	Ceiling	125 mg/m3
Ethanol (CAS 64-17-5)	TWA	25 ppm 1900 mg/m3 1000 ppm

**Engineering controls** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Personal protective equipment**

- Eye / face protection** Wear approved chemical safety goggles. Wear face-shield and protective suit for abnormal processing problems.
- Skin protection** Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
- Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
- General hygiene considerations** When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Aerosol (clear liquid).
<b>Physical state</b>	Liquid, Gas.
<b>Form</b>	Aerosol.
<b>Color</b>	Clear.
<b>Odor</b>	Fragrant
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Flash point</b>	< -58 °F (< -50 °C) (Flashpoint for propellant)
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>VOC</b>	< 30 %

**10. Chemical Stability & Reactivity Information**

<b>Chemical stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong acids. Strong bases. Amines.

<b>Hazardous decomposition products</b>	Hydrogen fluoride.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
2-Methylpentane-2,4-diol (CAS 107-41-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	4.79 g/kg
Dipropylene glycol (CAS 25265-71-8)		
<b>Acute</b>		
<i>Other</i>		
LD50	Rat	10.56 g/kg
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Rat	30000 mg/m3
<i>Oral</i>		
LD50	Rat	11.5 g/kg
<b>Sensitization</b>	May cause sensitization by skin contact.	
<b>Acute effects</b>	Contains a potential skin sensitizer.	
<b>Local effects</b>	Irritating to eyes, respiratory system and skin. May cause sensitization by skin contact.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful. Repeated or prolonged exposure to high concentrations may cause kidney and liver damage.	
<b>Carcinogenicity</b>	Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.	
<b>ACGIH Carcinogens</b>		
Ethanol (CAS 64-17-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
<b>Epidemiology</b>	Not available.	
<b>Mutagenicity</b>	Not available.	
<b>Neurological effects</b>	High vapor/aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.	
<b>Reproductive effects</b>	Not available.	
<b>Teratogenicity</b>	Not available.	

## 12. Ecological Information

### Ecotoxicological data

Components	Species	Test Results
Dipropylene glycol (CAS 25265-71-8)		
<b>Aquatic</b>		
Fish	LC50	Goldfish ( <i>Carassius auratus</i> )
		>= 5000 mg/l, 24 hours
Ethanol (CAS 64-17-5)		
<b>Aquatic</b>		
Algae	EC50	Freshwater algae
		275 mg/l, 72 Hours
		Marine water algae
		1970 mg/l
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )
		> 100 mg/l, 96 hours
		Freshwater fish
		11200 mg/l, 96 Hours
Invertebrate	EC50	Freshwater invertebrate
		5012 mg/l, 48 Hours
		Marine water invertebrate
		857 mg/l, 48 Hours

<b>Ecotoxicity</b>	Contains a substance which causes risk of hazardous effects to the environment.	
<b>Environmental effects</b>	The product may cause risk of hazardous effects to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.	
<b>Aquatic toxicity</b>	Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.	
<b>Persistence and degradability</b>	None known.	
<b>Bioaccumulation / Accumulation</b>	Not available.	
<b>Partition coefficient</b>		
Ethanol (CAS 64-17-5)		-0.31
1,1-Difluoroethane (CAS 75-37-6)		0.75

### 13. Disposal Considerations

<b>Waste codes</b>	D001: Waste Flammable material with a flash point <140 °F
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Do not re-use empty containers.

### 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>Additional information:</b>	<b>Limited Quantity</b>
<b>Special provisions</b>	N82
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

#### 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

#### IMDG

<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

#### TDG

<b>UN number</b>	UN1950
<b>Proper shipping name</b>	Aerosols, flammable
<b>Hazard class</b>	2.1
<b>Subsidiary hazard class</b>	6.1(PGIII)
<b>Special provisions</b>	N82
<b>Labels required</b>	2.1
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None
<b>Packaging bulk</b>	None

**General** This product is eligible for Limited Quantity exemption because its unit size meets the threshold.

### 15. Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

None

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

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)**  
 No

**Section 311/312 (40 CFR 370)**  
 Yes

**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)**  
 Not controlled

**Canadian regulations**  
 This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status**  
 Controlled

**WHMIS classification**  
 A - Compressed Gas  
 B5 - Flammable Aerosols  
 D1A - Immediate/Serious-VERY TOXIC  
 D2B - Other Toxic Effects-TOXIC

**WHMIS labeling****Inventory status**

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

**State regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Hazardous Substances (Director's): Listed substance**

2-Methylpentane-2,4-diol (CAS 107-41-5) Listed.  
 Ethanol (CAS 64-17-5) Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

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

1,1-Difluoroethane (CAS 75-37-6) Listed.  
 2-Methylpentane-2,4-diol (CAS 107-41-5) Listed.

Ethanol (CAS 64-17-5)	Listed.
<b>US. Massachusetts RTK - Substance List</b>	
1,1-Difluoroethane (CAS 75-37-6)	Listed.
2-Methylpentane-2,4-diol (CAS 107-41-5)	Listed.
Ethanol (CAS 64-17-5)	Listed.
<b>US. New Jersey Worker and Community Right-to-Know Act</b>	
1,1-Difluoroethane (CAS 75-37-6)	500 LBS
<b>US. Pennsylvania RTK - Hazardous Substances</b>	
2-Methylpentane-2,4-diol (CAS 107-41-5)	Listed.
Dipropylene glycol (CAS 25265-71-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.

## 16. Other Information

<b>Further information</b>	HMIS® is a registered trade and service mark of the NPCA.
<b>HMIS® ratings</b>	Health: 2* Flammability: 4 Physical hazard: 0
<b>NFPA ratings</b>	Health: 2 Flammability: 4 Instability: 0
<b>Disclaimer</b>	The information in the sheet was written based on the best knowledge and experience currently available.