

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Microburst Air Neutralizer - Energizing 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

Eye contact	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.
Skin contact	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.
Inhalation	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.
Ingestion	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

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

Protection of firefighters

Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Protective equipment and precautions for firefighters	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

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

10. Chemical Stability & Reactivity Information

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

Hazardous decomposition products	Hydrogen fluoride.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

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

12. Ecological Information

Ecotoxicological data

Components	Species	Test Results
Dipropylene glycol (CAS 25265-71-8)		
Aquatic		
Fish	LC50	Goldfish (<i>Carassius auratus</i>)
		>= 5000 mg/l, 24 hours
Ethanol (CAS 64-17-5)		
Aquatic		
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

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.	
Environmental effects	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.	
Aquatic toxicity	Harmful to aquatic life. May cause long-term adverse effects in the aquatic environment.	
Persistence and degradability	None known.	
Bioaccumulation / Accumulation	Not available.	
Partition coefficient		
Ethanol (CAS 64-17-5)		-0.31
1,1-Difluoroethane (CAS 75-37-6)		0.75

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 °F
Disposal instructions	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.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Do not re-use empty containers.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1950
Proper shipping name	Aerosols, flammable
Hazard class	2.1
Additional information:	Limited Quantity
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Labels required	2.1

IMDG

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Labels required	2.1

TDG

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

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

15. Regulatory Information

US federal regulations	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.
US. Massachusetts RTK - Substance List	
1,1-Difluoroethane (CAS 75-37-6)	Listed.
2-Methylpentane-2,4-diol (CAS 107-41-5)	Listed.
Ethanol (CAS 64-17-5)	Listed.
US. New Jersey Worker and Community Right-to-Know Act	
1,1-Difluoroethane (CAS 75-37-6)	500 LBS
US. Pennsylvania RTK - Hazardous Substances	
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

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