MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **Microburst 4500 Air Neutralizer**

Product Number(s) 3485949, 3485950, 3485951, 3485952, 3486092

Product use Air freshener.

Manufacturer/Supplier Rubbermaid Commercial Products LLC
3124 Valley Avenue
Winchester, VA 22601-2694
Telephone number: (540) 667-8700
Contact Person: Regulatory Manager

Emergency 24-Hour Emergency: INFOTRAC: 1-800-535-5053

2. Hazards Identification

Physical state Liquid.

Appearance Colorless liquid.

Emergency overview Flammable liquid and vapor.
Potential hazards that may occur if product is not used according to the consumer label are as follows: High vapor concentrations may cause drowsiness and irritation of the eyes or respiratory tract. Direct contact with the eye may cause irritation. Prolonged or repeated contact may dry skin and cause dermatitis. May cause allergic skin disorders in sensitive individuals. Gross ingestion of this product may be harmful.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Eyes May cause eye irritation.

Skin Prolonged or repeated contact may dry skin and cause dermatitis. May cause allergic skin disorders in sensitive individuals.

Inhalation In high concentrations, vapors may be irritating to the respiratory system.

Ingestion May cause discomfort if swallowed.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethane, 1,1-difluoro-	75-37-6	50 - 70
Ethyl alcohol	64-17-5	10 - 20
Fragrence	Mixture	10 - 20
Hexylene glycol	107-41-5	5 - 10

Composition comments All concentrations are in percent by weight.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if symptoms persist.

Skin contact Wash with soap and water. Get medical attention if symptoms occur after washing.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Rinse mouth thoroughly. Seek medical advice. Only induce vomiting at the instruction of medical personnel.

5. Fire Fighting Measures

Flammable properties Containers can burst violently when heated, due to excess pressure build-up. Flammable liquid and vapor. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent build-up of vapors or gasses to explosive concentrations.

Extinguishing media

Suitable extinguishing media Water fog. Alcohol foam. Carbon dioxide (CO2). Dry chemical.

Fire fighting equipment/instructions Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Methods for cleaning up Eliminate all ignition sources. Stop the flow of gas. Allow to dissipate with adequate ventilation.

7. Handling and Storage

Handling Observe good industrial hygiene practices.

Storage Keep away from heat, sparks, and flame. Keep out of reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Ethyl alcohol (64-17-5)	STEL	1000 ppm
Hexylene glycol (107-41-5)	Ceiling	25 ppm

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

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

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

Components	Type	Value
Ethyl alcohol (64-17-5)	TWA	1880 mg/m3 1000 ppm
Hexylene glycol (107-41-5)	Ceiling	121 mg/m3 25 ppm

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

Components	Type	Value
Ethyl alcohol (64-17-5)	STEL	1000 ppm
Hexylene glycol (107-41-5)	Ceiling	25 ppm

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Ethyl alcohol (64-17-5)	TWA	1900 mg/m3 1000 ppm
Hexylene glycol (107-41-5)	Ceiling	120 mg/m3 25 ppm

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

Components	Type	Value
Ethyl alcohol (64-17-5)	TWA	1880 mg/m3 1000 ppm
Hexylene glycol (107-41-5)	Ceiling	121 mg/m3 25 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
Ethyl alcohol (64-17-5)	TWA	1900 mg/m3 1000 ppm
Hexylene glycol (107-41-5)	Ceiling	125 mg/m3 25 ppm

Engineering controls No special requirements under ordinary conditions of use and with adequate ventilation.

Personal protective equipment

Eye / face protection No protection is ordinarily required under normal conditions of use.

Skin protection No protection is ordinarily required under normal conditions of use.

Respiratory protection No protection is ordinarily required under normal conditions of use.

9. Physical & Chemical Properties

Appearance Colorless liquid.

Color Clear, colorless.

Odor Fragrant

Odor threshold Not available.

Physical state Liquid.

Form Liquid.

pH Not available.

Melting point Not available.

Freezing point Not available.

Boiling point Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability limits in air, upper, % by volume Not available.

Flammability limits in air, lower, % by volume Not available.

Vapor pressure Not available.

Vapor density Not available.

Specific gravity 0.8 (20°C)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) No data available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

10. Chemical Stability & Reactivity Information

Chemical stability Aerosol containers are unstable at temperatures above 120ºF (49ºC).

Conditions to avoid Contact with incompatible materials. Keep away from heat, sparks, and flame.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products Carbon oxides.

Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Toxicological data

Product	Test Results
Microburst 4500 Air Neutralizer	Acute Oral LD50 Mouse: 42 g/kg estimated

Components	Test Results
Hexylene glycol (107-41-5)	Acute Oral LD50 Mouse: 3.5 g/kg
	Acute Oral LD50 Rat: 4.79 g/kg

Acute effects High vapor concentrations may cause drowsiness and irritation of the eyes or respiratory tract. May cause eye irritation on direct contact.

Sensitization May cause allergic skin disorders in sensitive individuals.

Chronic effects Animal data for potential components of this product indicate that frequent over-exposure may produce adverse effects. Chronic effects are not expected when this product is used as intended.

Carcinogenicity None known.

12. Ecological Information

Ecotoxicological data

Components	Test Results
Hexylene glycol (107-41-5)	LC50 Bleak (Alburnus alburnus): 7000 - 9100 mg/l 96 hours
Ethyl alcohol (64-17-5)	EC50 Water flea (Daphnia magna): 7.7 - 11.2 mg/l 48 hours
	LC50 Fathead minnow (Pimephales promelas): > 100 mg/l 96 hours

Ecotoxicity Not expected to be harmful to aquatic organisms.

Persistence and degradability No data available.

Bioaccumulation / Accumulation No data available.

Partition coefficient (n-octanol/water) No data available.

Mobility in environmental media No data available.

13. Disposal Considerations

Disposal instructions Collect in marked containers and deliver to approved depot.

Waste from residues / unused products Dispose of waste and residues in accordance with local authority requirements.

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

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1950
Proper shipping name	Aerosols
Hazard class	ORM-D
Subsidiary hazard class	6.1
Labels required	2.2, 6.1

Additional information:

Special provisions	153
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ERG number	126

IATA

Basic shipping requirements:

UN number	1950
Proper shipping name	Aerosols, flammable

Hazard class ORM-D
Additional information:
ERG code 10L

IMDG

Basic shipping requirements:
UN number 1950
Proper shipping name AEROSOLS, toxic
Hazard class ORM-D
Subsidiary hazard class 5T

TDG

Basic shipping requirements:
Proper shipping name AEROSOLS, flammable
Hazard class ORM-D
UN number UN1950
Marine pollutant •
Additional information:
Special provisions 80 SOR/2002-306

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. This material is not listed on the US TSCA 8(b) Inventory, therefore it may only be used for TSCA Exempt purposes such as R&D or Food, Drug or Cosmetic use.

CERCLA (Superfund) reportable quantity (lbs)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Drug Enforcement Agency (DEA) 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/Combustible
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)	No
Canada	Domestic Substances List (DSL)	No
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

Country(s) or region	Inventory name	On inventory (yes/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	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations

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

Ethyl alcohol (CAS 64-17-5)	Listed.
Hexylene glycol (CAS 107-41-5)	Listed.

US - Massachusetts RTK - Substance: Listed substance

Ethane, 1,1-difluoro- (CAS 75-37-6)	Listed.
Ethyl alcohol (CAS 64-17-5)	Listed.
Hexylene glycol (CAS 107-41-5)	Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

Ethane, 1,1-difluoro- (CAS 75-37-6)	500 LBS

US - New Jersey RTK - Substances: Listed substance

Ethane, 1,1-difluoro- (CAS 75-37-6)	Listed.
Ethyl alcohol (CAS 64-17-5)	Listed.
Hexylene glycol (CAS 107-41-5)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Ethyl alcohol (CAS 64-17-5)	Listed.
Hexylene glycol (CAS 107-41-5)	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: 1

NFPA ratings
Health: 2
Flammability: 4
Instability: 1

Disclaimer
To the best of our knowledge, the information contained herein is accurate. However no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability to assure proper use, disposal, and safety of these materials.

Issue date
09-30-2010

Revision 02: Section 1: Added product number(s).