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

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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethane, 1,1-difluoro-</td>
<td>75-37-6</td>
<td>50 - 70</td>
</tr>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Fragrence</td>
<td>Mixture</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Hexylene glycol</td>
<td>107-41-5</td>
<td>5 - 10</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>PEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1900 mg/m3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>121 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>120 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>121 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>
Mexico. Occupational Exposure Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Ceiling</td>
<td>125 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
</tr>
</tbody>
</table>

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.
- **Hazardous decomposition products**: Carbon oxides.
- **Possibility of hazardous reactions**: Will not occur.

11. Toxicological Information

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microburst 4500 Air Neutralizer</td>
<td>Acute Oral LD50 Mouse: 42 g/kg estimated</td>
</tr>
</tbody>
</table>
Components Test Results

<table>
<thead>
<tr>
<th>Components</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexylene glycol (107-41-5)</td>
<td>Acute Oral LD50 Mouse: 3.5 g/kg</td>
</tr>
<tr>
<td></td>
<td>Acute Oral LD50 Rat: 4.79 g/kg</td>
</tr>
</tbody>
</table>

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

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

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).