



TECHNICAL CONCEPTS

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/23/2015 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : MB45 REFRESHING CITRUS  
Product code : 1832476  
SKU # : 3485952

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Aerosol  
For professional use only  
Air care products  
Odour agents

#### 1.3. Details of the supplier of the safety data sheet

Rubbermaid Commercial Products LLC  
3124 Valley Avenue  
Winchester, VA 22601-2694 - USA  
T (540) 6678700  
[www.rubbermaidcommercial.com](http://www.rubbermaidcommercial.com)

#### 1.4. Emergency telephone number

Emergency number : 24-Hour Emergency: INFOTRAC: 1-800535-5063

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flam. Aerosol 1 H222  
Skin Irrit. 2 H315  
Eye Irrit. 2A H319  
Skin Sens. 1 H317

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS02

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H222 - Extremely flammable aerosol  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Pressurized container: Do not pierce or burn, even after use  
P280 - Wear protective gloves  
P302+P352 - If on skin: Wash with plenty of water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Alcohol	(CAS No) 64-17-5	10 - 20	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
HEXYLENE GLYCOL	(CAS No) 107-41-5	10 - 20	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
LIMONENE	(CAS No) 5989-27-5	1 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALOOL	(CAS No) 78-70-6	1 - 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
CITRAL	(CAS No) 5392-40-5	0,1 - 1	Skin Irrit. 2, H315 Skin Sens. 1, H317
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE	(CAS No) 68039-49-6	0,1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
MYRCENE	(CAS No) 123-35-3	< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox. 1, H304
GAMMA-TERPINENE	(CAS No) 99-85-4	< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Asp. Tox. 1, H304
PINENES	(CAS No) 127-91-3	< 0,1	Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304
p-CYMENE	(CAS No) 99-87-6	< 0,1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Cough. Allow breathing of fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. If skin irritation persists, take medical advice. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: Shortness of breath. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable aerosol.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : Stable under normal conditions of use.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. DO NOT fight fire when fire reaches explosives. Evacuate area.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Ventilate spillage area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or burn, even after use.
- Precautions for safe handling : No open flames. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not spray on an open flame or other ignition source.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources, Ignition sources. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

MB45 REFRESHING CITRUS	
ACGIH	Not applicable
OSHA	Not applicable
LIMONENE (5989-27-5)	
ACGIH	Not applicable

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>LIMONENE (5989-27-5)</b>		
OSHA	Not applicable	

  

<b>LINALOOL (78-70-6)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>CITRAL (5392-40-5)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>Alcohol (64-17-5)</b>		
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

  

<b>HEXYLENE GLYCOL (107-41-5)</b>		
ACGIH	ACGIH Ceiling (ppm)	25 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr
OSHA	Not applicable	

  

<b>2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>PINENES (127-91-3)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>MYRCENE (123-35-3)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>GAMMA-TERPINENE (99-85-4)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

  

<b>p-CYMENE (99-87-6)</b>		
ACGIH	Not applicable	
OSHA	Not applicable	

### 8.2. Exposure controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: None under normal use. Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: None under normal use. Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear Transparent Liquid.
Colour	: colourless to slightly yellow
Odour	: characteristic
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol
Vapour pressure	: 4,5 - 5,5 bar
Relative vapour density at 20 °C	: No data available
Relative density	: 0,7
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 1,8 - 19 vol %

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions of use.

#### 10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.

#### 10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Alcohol (64-17-5)

LD50 oral rat	7060 mg/kg
---------------	------------

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>Alcohol (64-17-5)</b>	
LD50 dermal rabbit	> 16000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h
ATE US (oral)	7060,000 mg/kg bodyweight

<b>2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)</b>	
LD50 oral rat	4000 mg/kg
ATE US (oral)	4000,000 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: Shortness of breath. May cause an allergic skin reaction.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>LINALOOL (78-70-6)</b>	
LC50 fish 1	27,8 mg/l
EC50 other aquatic organisms 1	88,3 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	20 mg/l IC50 algea (72 h) mg/l

<b>CITRAL (5392-40-5)</b>	
LC50 fish 1	4,1 mg/l
EC50 other aquatic organisms 1	5 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	7 mg/l IC50 algea (72 h) mg/l

<b>Alcohol (64-17-5)</b>	
LC50 fish 1	13000 mg/l
EC50 Daphnia 1	9300 mg/l
EC50 other aquatic organisms 1	275 mg/l EC50 waterflea (48 h)
EC50 other aquatic organisms 2	5012 mg/l IC50 algea (72 h) mg/l

<b>HEXYLENE GLYCOL (107-41-5)</b>	
LC50 fish 1	> 1000 mg/l
EC50 other aquatic organisms 2	> 1000 mg/l IC50 algea (72 h) mg/l

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.2. Persistence and degradability

MB45 REFRESHING CITRUS	
Persistence and degradability	Not established.

Alcohol (64-17-5)	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

MB45 REFRESHING CITRUS	
Bioaccumulative potential	Not established.

Alcohol (64-17-5)	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on ozone layer	: None to our knowledge
Effect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT	
Transport document description	: UN1950 Aerosols, 2.1
UN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols
Transport hazard class(es) (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)	: 2.1 - Flammable gas



DOT Special Provisions (49 CFR 172.102)	: N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Packaging Non Bulk (49 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CFR 173.xxx)	: None
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Vessel Stowage Other : 48 - Stow "away from" sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

### Additional information

Other information : No supplementary information available.

### ADR

Transport document description : UN 1950 AEROSOLS, 2.1, (D)  
Class (ADR) : 2 - Gases  
Classification code (ADR) : 5F  
Danger labels (ADR) : 2.1 - Flammable gases



Tunnel restriction code (ADR) : D  
LQ : 1I  
Excepted quantities (ADR) : E0

### Transport by sea

UN-No. (IMDG) : 1950  
Proper Shipping Name (IMDG) : AEROSOLS  
Class (IMDG) : 2 - Gases

### Air transport

UN-No. (IATA) : 1950  
Proper Shipping Name (IATA) : Aerosols, flammable  
Class (IATA) : 2

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### LIMONENE (5989-27-5)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### LINALOOL (78-70-6)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### CITRAL (5392-40-5)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Alcohol (64-17-5)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### HEXYLENE GLYCOL (107-41-5)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### PINENES (127-91-3)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### MYRCENE (123-35-3)

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory



# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **GAMMA-TERPINENE (99-85-4)**

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### **p-CYMENE (99-87-6)**

Not listed on the United States SARA Section 313  
Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### CANADA

No additional information available

### EU-Regulations

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229  
Skin Irrit. 2 H315  
Eye Irrit. 2 H319  
Skin Sens. 1 H317  
Aquatic Chronic 3 H412  
Full text of H-phrases: see section 16

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

#### 15.2.2. National regulations

## 15.3. US State regulations

### **Alcohol (64-17-5)**

U.S. -New York - RTK list Hazardous Substances

### **HEXYLENE GLYCOL (107-41-5)**

U.S. -New York - RTK list Hazardous Substances

## SECTION 16: Other information

Other information

: REACH Disclaimer:

This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. None.

# MB45 REFRESHING CITRUS

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Full text of H-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Aerosol 1	Flammable aerosols, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS US GHS HazCom 2012 newell

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*