



MB45 REFRESHING CITRUS

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 01/01/2018

Version: 1.0

TECHNICAL CONCEPTS

SECTION 1: Identification

1.1. Product identifier

Product name : MB45 REFRESHING CITRUS
Type of product : Aerosol
Product code : 1832476
SKU # : 3485952

1.2. Recommended use and restrictions on use

Recommended use : Air care products, Odour agents
Restrictions on use : Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

1.3. Supplier

Manufacturer

Rubbermaid Commercial Products LLC
3124 Valley Avenue
VA 22601-2694 Winchester - USA
T 1.800.347.9800
www.rubbermaidcommercial.com

Other

Rubbermaid Commercial Products LLC
20 Hereford Street
L6Y 0M1 Brampton - Canada
T 1.800.998.7004

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Flammable aerosols, Category 1 H222
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2A H319
Skin sensitisation, Category 1 H317

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA) :



Signal word (GHS-CA) : Danger

Hazard statements (GHS-CA) : H222 - Extremely flammable aerosol.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary statements (GHS-CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - 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-CA)

No data available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification (GHS-CA)
Alcohol	(CAS-No.) 64-17-5	10 - 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
HEXYLENE GLYCOL	(CAS-No.) 107-41-5	10 - 30	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
LIMONENE	(CAS-No.) 5989-27-5	1 - 5	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 - 5	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

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Cough. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Get medical advice if skin irritation persists. Wash with plenty of 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.
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).

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Shortness of breath. May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

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.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the 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.

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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.

6.2. Methods and materials 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.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alcohol (64-17-5)		
Alberta	OEL STEL (ppm)	1000 ppm
Alberta	Notations and remarks	URT irr
British Columbia	OEL STEL (ppm)	1000 ppm
British Columbia	Notations and remarks	URT irr
Manitoba	OEL STEL (ppm)	1000 ppm
New Brunswick	OEL STEL (ppm)	1000 ppm
New Foundland & Labrador	OEL STEL (ppm)	1000 ppm
Nova Scotia	OEL STEL (ppm)	1000 ppm
Nunavut	OEL STEL (ppm)	1000 ppm
Northwest Territories	OEL STEL (ppm)	1000 ppm
Prince Edward Island	OEL STEL (ppm)	1000 ppm
Saskatchewan	OEL STEL (ppm)	1250 ppm
Saskatchewan	OEL TWA (ppm)	1000 ppm
HEXYLENE GLYCOL (107-41-5)		
Saskatchewan	OEL STEL (ppm)	25 ppm
Saskatchewan	OEL TWA (ppm)	25 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize mist and/or vapour concentrations.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

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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.

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
Relative evaporation rate (ether=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
Vapour pressure at 50 °C	: No data available
Relative density	: 0.7
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 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

Reactivity	: Stable under normal conditions of use.
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.
Possibility of hazardous reactions	: Not established.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.
Incompatible materials	: Oxidizing agent. Strong acids. Strong bases.
Hazardous decomposition products	: May release flammable gases. fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

LINALOOL (78-70-6)

LD50 oral	2790 mg/kg bodyweight
LD50 dermal	5610 mg/kg bodyweight

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CITRAL (5392-40-5)	
LD50 oral	4960 mg/kg bodyweight
LD50 dermal	2250 mg/kg bodyweight
Alcohol (64-17-5)	
LD50 oral rat	7060 mg/kg
LD50 oral	10470 mg/kg bodyweight
LD50 dermal rabbit	> 16000 mg/kg
LD50 dermal	15800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 20 mg/l/4h
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 99999 mg/l
HEXYLENE GLYCOL (107-41-5)	
LD50 oral	> 2000 mg/kg bodyweight
LD50 dermal	> 2000 mg/kg bodyweight
2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)	
LD50 oral rat	4000 mg/kg
LD50 oral	2830 mg/kg
LD50 dermal	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Vaporizer	Aerosol

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: Shortness of breath. May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

LINALOOL (78-70-6)	
LC50 fish 1	27.8 mg/l
EC50 other aquatic organisms 1	20 mg/l waterflea
EC50 other aquatic organisms 2	88.3 mg/l
CITRAL (5392-40-5)	
LC50 fish 1	4.1 mg/l
EC50 other aquatic organisms 1	7 mg/l waterflea
EC50 other aquatic organisms 2	5 mg/l
Alcohol (64-17-5)	
LC50 fish 1	13000 mg/l
EC50 Daphnia 1	9300 mg/l
EC50 other aquatic organisms 1	5012 mg/l waterflea
EC50 other aquatic organisms 2	275 mg/l
HEXYLENE GLYCOL (107-41-5)	
LC50 fish 1	8690 mg/l
EC50 other aquatic organisms 1	5410 mg/l waterflea
EC50 other aquatic organisms 2	> 429 mg/l

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12.2. Persistence and degradability

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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.

LINALOOL (78-70-6)	
Log Pow	2.84

CITRAL (5392-40-5)	
Log Pow	2.8

Alcohol (64-17-5)	
Log Pow	-0.32
Bioaccumulative potential	Not established.

HEXYLENE GLYCOL (107-41-5)	
Log Pow	-0.1

2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)	
Log Pow	2.7

12.4. Mobility in soil

LINALOOL (78-70-6)	
Log Pow	2.84

CITRAL (5392-40-5)	
Log Pow	2.8

Alcohol (64-17-5)	
Log Pow	-0.32

HEXYLENE GLYCOL (107-41-5)	
Log Pow	-0.1

2,4-DIMETHYL-3-CYCLOHEXENE CARBOXALDEHYDE (68039-49-6)	
Log Pow	2.7

12.5. Other adverse effects

Effect on ozone layer	: None to our knowledge.
GWPmix comment	: No known effects from this product.
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging 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

14.1. Basic shipping description

No additional information available

14.2. Transport information/DOT

Department of Transport

DOT NA no.	: UN1950
UN-No.(DOT)	: 1950
Transport document description	: UN1950 Aerosols, 2.1
Proper Shipping Name (DOT)	: Aerosols
Contains Statement Field Selection (DOT)	:

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Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Division (DOT) : 2.1
Hazard labels (DOT) : 2.1 - Flammable gas



Dangerous for the environment : No
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.
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
Other information : No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG) : 1950
Proper Shipping Name (IMDG) : AEROSOLS
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1
Class (IMDG) : 2 - Gases

IATA

UN-No. (IATA) : 1950
Proper Shipping Name (IATA) : Aerosols, flammable
Transport document description (IATA) : UN 1950 Aerosols, flammable, 2.1
Class (IATA) : 2

SECTION 15: Regulatory information

15.1. National regulations

LIMONENE (5989-27-5)

Listed on the Canadian DSL (Domestic Substances List)

LINALOOL (78-70-6)

Listed on the Canadian DSL (Domestic Substances List)

CITRAL (5392-40-5)

Listed on the Canadian DSL (Domestic Substances List)

Alcohol (64-17-5)

Listed on the Canadian DSL (Domestic Substances List)

HEXYLENE GLYCOL (107-41-5)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

LIMONENE (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

LINALOOL (78-70-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CITRAL (5392-40-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

HEXYLENE GLYCOL (107-41-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

Date of issue : 01/01/2018

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.

Full text of H-statements:

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.
H412	Harmful to aquatic life with long lasting effects.

SDS_CANADA_GHS_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