Safety Data Sheet



BRB CM 50

Print Date 17-Aug-2023 Revision date 17-Aug-2023 Version 3

1. Identification

Product identifier

Product name BRB CM 50

Other means of identification

Product code 1041177

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Cosmetic additive, solvent Home care Personal care Cleaning agent Chemical intermediate

Laboratory chemicals Additives for pigment/paint/ink

Restrictions on useNo information available

Details of the supplier of the safety data sheet

BRB International BV BRB North America Inc. BRB Malaysia Sdn Bhd

Branskamp 12 68 3rd Street, Suite 247 No 112, Kawasan Perindustrian Gebeng

Malaysia

6014 CB Ittervoort Brooklyn, NY 11231 Kuantan, Pahang 26080

The Netherlands USA

☎: 0031-475-560300 **☎**: 001-917-8341770 **☎**: 00603-5858-588

For further information, please contact

Contact Point Regulatory Affairs Department

E-mail address MSDS@brbbv.com

Emergency telephone number

Emergency telephone +1 215 207 0061 (NCEC 24/7) For additional emergency telephone numbers see section 16

of the safety data sheet.

Hazard(s) identification

Classification

Flammable liquids***

Category 4***

Label elements

Warning***

Hazard statements

Combustible liquid***

Appearance No information available Physical state Liquid Odor odorless

BRB CM 50

Precautionary Statements - Prevention

Keep away from flames and hot surfaces. - No smoking Wear protective gloves/eye protection/face protection***

In case of fire: Use CO2, dry chemical, or foam to extinguish***

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool***

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant***

Hazards not otherwise classified (HNOC)

OTHER INFORMATION

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.***

3. Composition/information on ingredients

Substance

Mixture ***

Chemical name	CAS No.	Weight-%	Trade secret
Decamethylcyclopentasiloxane***	541-02-6	> 96	*
Octamethylcyclotetrasiloxane***	556-67-2	<0.1	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

First-aid measures

Description of first aid measures

General advice IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present

and easy to do. Continue rinsing.***

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes.***

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Wear

personal protective clothing (see section 8).***

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.***

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the Keep product and empty container away from heat and sources of ignition. In the event of

chemical fire, cool tanks with water spray.***

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide. Formaldehyde. Silicon dioxide.

Explosion data

Large Fire

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.***

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Take precautionary measures against static discharges. Do

not touch or walk through spilled material.***

For emergency responders

Use personal protection recommended in Section 8.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far

ahead of liquid spill for later disposal.***

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labeled containers.***

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See Section 13 for more information. See Section 12 for

additional Ecological Information.

Handling and storage

Precautions for safe handling

Advice on safe handling Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary

measures against static discharges. Use with local exhaust ventilation.***

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.***

Exposure controls/personal protection

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Limits**

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).***

Gloves						
Duration of contact	Duration of contact PPE - Glove material Glove thickness Break through time					
Long term (repeated)*** Wear protective nitrile rubber gloves***		>=0.4 mm***	>=480 minutes***			

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Local authorities should be advised if significant spillages cannot be contained. **Environmental exposure controls**

Do not eat, drink or smoke when using this product. Contaminated work clothing should not General hygiene considerations

be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.***

No information available

Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid

No information available **Appearance**

Color Colorless Odor odorless

Odor threshold No information available

Property Values Remarks • Method

No data available pН

pH (as aqueous solution) No data available approx. -38 °C*** /*** -36.4 °F*** Melting point/freezing point

approx. 210 °C*** /*** 410 °F*** Boiling point / boiling range approx. 82.7 °C*** /*** 180.9

Flash Point

Evaporation Rate No data available No information available No data available None known Flammability (solid, gas)

BRB CM 50

None known

Flammability Limit in Air Upper flammability limit: 13.21 vol%*** Vol-% 0.45 vol%*** Vol-%

Lower flammability limit: Vapor pressure No data available

approx.*** 0.33*** hPa*** @ 25 °C***

Vapor Density

Relative Density approx. 0.960 g/cm3 @ 20°C Water solubility No data available @ 20°C

Solubility in other solvents No data available

@ 25 °C **Partition coefficient** approx. 8.1

Autoignition Temperature approx. 372 °C*** /***

701.6 °F*** No data available **Decomposition temperature** None known Kinematic viscosity No data available @ 40°C 4 mm2/s @ 25°C

Dynamic viscosity 3.5 mPa s @ 25 °C

Other information

Explosive properties No information available **Oxidizing properties** No information available Softening point No information available Molecular weight No information available No information available **VOC Content (%) Density** No data available **Bulk Density** No data available

Stability and reactivity

No information available. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Heat, flames and sparks.*** **Conditions to Avoid**

Incompatible materials Acids. Bases. Incompatible with oxidizing agents.

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon

monoxide. Carbon dioxide (CO2). Silicon dioxide. If this product is heated to > 150 °C, trace

quantities of formaldehyde may be released, and adequate ventilation is required.

11. Toxicological information

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Eve contact

Skin contact May be harmful in contact with skin.***

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

No information available. **Symptoms**

Acute toxicity

Numerical measures of toxicity

Oral LD50	***	
> 5005*** mg/kg	Rat	OECD 401
Dermal LD50	***	
> 2002*** mg/kg	Rabbit	OECD 402
Inhalation LC50	***	
> 5005***	Rat	OECD 403

Chemical name	Oral LD50		Dermal LD50	Inhalation LC50	
Decamethylcyclopentasiloxane*	> 5000 mg/kg	(Rat OECD 401)	> 2000 mg/kg (Rabbit OECD	appox. 8.67 mg/L (Rat 4h	
**			402)	OECD 403)	
541-02-6			·	·	

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute	Rabbit				non-irritant
Dermal Irritation/Corrosion					

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute	Rabbit				non-irritant
Eye Irritation/Corrosion					

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Decametry/cyclopentasiloxane (341-02	0)		
Method	Species	Exposure route	Results
OECD Test No. 429: Skin	Mouse		Not a skin sensitizer
Sensitization: Local Lymph Node			
Assav			

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Became any loyer porta one start of the Edy				
Method	Species	Results		
OECD 471	in vitro	Not mutagenic		
OECD 473	in vitro	Not mutagenic		
OECD 476	in vitro	Not mutagenic		
OECD 474	in vivo	Not mutagenic		
OECD 486	in vivo	Not mutagenic		

Carcinogenicity

Based on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Results	

BRB CM 50

OECD Test No. 453: Combined Chronic	Rat	Not Carcinogenic
Toxicity/Carcinogenicity Studies		_

Reproductive toxicity

Based on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Results
OECD 416	Rat	Negative
OECD 414	Rat	Negative

Developmental toxicityBased on available data, the classification criteria are not met.

Teratogenicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposureBased on available data, the classification criteria are not met.

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD 408	Rat	Oral	>= 1000 mg/kg bw/day		NOAEL
OECD 410	Rat	Dermal	>=1600 mg/kg bw/day		NOAEL
OECD 453	Rat	Inhalation	2420 mg/m ³		NOAEC
OECD 453	Rat	Inhalation	600 mg/m ³		NOAEC

Aspiration hazard Based on available data, the classification criteria are not met.

Other adverse effects

No information available.

Interactive effects

No information available.

12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects.***

Decamethylcyclopentasiloxane (541-02-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 201:	Selenastrum	EC50	> 12 µg/l	96 hours	
Freshwater Alga and	capricornutum				
Cyanobacteria, Growth					
Inhibition Test					
OECD Test No. 201:	Selenastrum	NOEC	>= 12 μg/l	96 hours	
Freshwater Alga and	capricornutum				
Cyanobacteria, Growth					
Inhibition Test					
OECD Test No. 204: Fish,	Oncorhynchus	LC50	> 16 µg/l	96 hours	
Prolonged Toxicity Test:	mykiss (rainbow				
14-Day Study	trout)				
OECD Test No. 204: Fish,	Oncorhynchus	NOEC	>= 16 µg/l	96 hours	
Prolonged Toxicity Test:	mykiss (rainbow				
14-Day Study	trout)				
OECD Test No. 210: Fish,	Oncorhynchus	NOEC	>= 14 µg/l	2160 hours	
Early-Life Stage Toxicity	mykiss (rainbow				

BRB CM 50

Test	trout)				
OECD Test No. 202:	Daphnia magna	EC50	> 2.9 µg/l	48 hours	
Daphnia sp., Acute					
Immobilization Test					
OECD Test No. 202:	Daphnia magna	NOEC	>= 2.9 µg/l	48 hours	
Daphnia sp., Acute					
Immobilization Test					
OECD Test No. 211:	Daphnia magna	NOEC	>= 15 µg/l	504 hours	
Daphnia magna					
Reproduction Test					

Persistence and degradability No information available.

Product Information

Biodegradation
BOD
No information available

Chemical name	Biodegradation
Decamethylcyclopentasiloxane***	Biodegradation: 0.14% (28d OECD 310)
541-02-6	· · · · · · · · · · · · · · · · · · ·

Bioaccumulation No information available.

Bioaccumulation (factor)

Chemical name	Partition coefficient	
Decamethylcyclopentasiloxane***	8.1	
541-02-6		

Mobility No information available.

Other adverse effects No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packaging which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the

product itself.

14. Transport information

DOT *

UN/ID no NA1993***
Proper shipping name Combustible liquid, n.o.s.***

Transport hazard class(es)

Combustible liquid***

Packing group
Special Provisions

Special Provisions IB3, T1,TP1, 148***

BRB CM 50 Revision date 17-Aug-2023

DOT Marine Pollutant NP***

Description NA1993, Combustible liquid, n.o.s.(Decamethylcyclopentasiloxane), III***

Emergency Response Guide

Number

128

IMDG Not regulated

Not regulated

15. Regulatory information

International Inventories

TSCA Complies.***

Complies.*** **DSL/NDSL** Complies.*** **EINECS/ELINCS** Complies.*** **ENCS** Complies.*** **IECSC** Complies.*** **KECL** Complies.*** **PICCS** Complies.*** **AICS** Complies.*** **NZIoC**

TCSI Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

BRB CM 50

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. Other information

NFPAHealth hazards0Flammability2***Instability0Special hazards-HMISHealth hazards0Flammability2***Physical hazards0PERSONAL
PROTECTION

Emergency telephone number

 Mexico
 +52 55 5004 8763 (NCEC 24/7)

 Chile
 +56 2 2582 9336 (NCEC 24/7)

 Colombia
 +57 601 508 7337 (NCEC 24/7)***

 Argentina
 +54 11 5984 3690 (NCEC 24/7)

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend SECTION 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision date 17-Aug-2023

Revision noteNo information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.