

Material Safety Data Sheet

Material: 60006878

WACKER-BELSIL® PDM 20

Version: 1.2 (US)

Date of print: 22.11.2005

Date of last alteration: 26.09.2003

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: WACKER-BELSIL® PDM 20
Use of substance / preparation: Industrial.
Intermediate chemical

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker-Chemie GmbH
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information: Wacker Chemical Corporation
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
Customer Care Center: Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation: Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wackersilicones.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international) (613) 996-6666
(CANUTEC, Canada)

This MSDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2 Composition/information on ingredients**2.1 Chemical characterization (substance):**

Chemical characteristics
Polydimethylphenylsiloxane

2.2 Information on ingredients:

This material does not contain any OSHA or WHMIS reportable hazardous ingredients.

Substances listed in the Subsections HAPS and California Proposition 65 Carcinogens / Reproductive Toxins that are not listed in Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

3 Hazards identification**3.1 Hazards classifications**

HMIS® rating (product as packaged):

Health: 1 Fire: 1 Reactivity: 0 PPE: B

(HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: None.

3.2 Emergency overview and potential hazards

This material is not hazardous under OSHA criteria. This material is not hazardous under WHMIS criteria.

Material Safety Data Sheet

Material: 60006878 WACKER-BELSIL® PDM 20

Version: 1.2 (US) Date of print: 22.11.2005 Date of last alteration: 26.09.2003

Physical Hazards:

No known physical hazards.

Acute health effects**Route of entry or possible contact:**

eyes , skin .

Eye contact:

May cause slight eye irritation.

Skin contact:

No known skin hazards.

Inhalation:

Inhalation is not expected due to low vapor pressure.

Ingestion:

Not expected in industrial use.

Additional information on acute health effects:

none

3.3 Further information:**Chronic health effects:**

No known or expected chronic health effects.

Medical conditions which may be aggravated by exposure:

none known

Target organs affected:

No known internal organ effects.

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

4 First-aid measures**4.1 General information:**

Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

4.2 After inhalation:

No special treatment is required.

4.3 After contact with the skin:

Remove material with a waterless skin cleaner from skin. Wash with soap and water.

4.4 After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing:

For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids.

5 Fire-fighting measures**5.1 Flammable properties:**

	Method
Flash point.....: approx. 170 °C (338 °F)	(ISO 2719)
Lower explosion limit (LEL).....: not applicable	
Upper explosion limit (UEL).....: not applicable	
Autoignition temperature.....: approx. 450 °C (842 °F)	(DIN 51794)
NFPA Hazard Class (comb./flam.liquid): IIIB	

5.2 Fire and explosion hazards:

none known

5.3 Recommended extinguishing media:

water-mist , carbon dioxide , sand , dry chemical or alcohol-resistant foam .

Material Safety Data Sheet

Material: 60006878

WACKER-BELSIL® PDM 20

Version: 1.2 (US)

Date of print: 22.11.2005

Date of last alteration: 26.09.2003

5.4 Unsuitable extinguishing media:

sharp water jet , water-spray .

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Hazardous decomposition products: carbon monoxide , carbon dioxide , silicon dioxide , formaldehyde , incompletely burnt hydrocarbons .

5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

6 Accidental release measures**6.1 Precautions:**

If material is released indicate risk of slipping.

HAZWOPER PPE Level: D**6.2 Containment:**

Prevent material from entering surface waters, drains or sewers and open soil. Contain any fluid that runs out using suitable material (e.g. earth).

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up:

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner.

7 Handling and storage**7.0 General information:**

No special protective measures required.

7.1 Handling**Precautions for safe handling:**

Spilled substance increases risk of slipping.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

7.2 Storage**Conditions for storage rooms and vessels:**

none known

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Keep container tightly closed.

8 Exposure controls and personal protection**8.1 Engineering controls****Ventilation:**

Use with adequate ventilation.

Local exhaust:

not necessary

8.2 Associate substances with specific control parameters such as limit values

none known .

8.3 Personal protection equipment (PPE)**Respiratory protection:**

Respiratory protection is not normally required.

Hand protection:

Recommendation: rubber gloves .

Material Safety Data Sheet

Material: 60006878

WACKER-BELSIL® PDM 20

Version: 1.2 (US)

Date of print: 22.11.2005

Date of last alteration: 26.09.2003

Eye protection:

Safety glasses with side shields or chemical safety goggles.

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

Avoid contact with eyes. Do not eat or drink when handling. Wash thoroughly after handling.

9 Physical and chemical properties**9.1 Appearance**Physical state / form.....: liquid
Colour.....: colourless
Odour.....: odourless**9.2 Safety parameters**

	Method
Melting point / melting range.....: approx. -65 °C (-85 °F)	
Flash point.....: approx. 170 °C (338 °F)	(ISO 2719)
Autoignition temperature.....: approx. 450 °C (842 °F)	(DIN 51794)
Lower explosion limit (LEL).....: not applicable	
Upper explosion limit (UEL).....: not applicable	
Density.....: 0.99 - 1.01 g/cm ³ at 25 °C (77 °F), at 1013 hPa	(DIN 51757)
Water solubility / miscibility.....: virtually insoluble	
Solubility in organic solvent.....: totally miscible with common organic solvents	
pH-Value.....: approx. 7	
Viscosity (dynamic).....: 18 - 22 mPa*s at 25 °C (77 °F)	(DIN 51562)

9.3 Further information

Thermal decomposition.....: > 350 °C (> 662 °F)

10 Stability and reactivity**10.0 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:

none known

10.2 Materials to avoid:

none known

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F). Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.4 Further information:

Hazardous polymerization cannot occur.

11 Toxicological information**11.1 General information:**

Toxicological testing has been conducted with this material.

11.2 Toxicological data:**Acute toxicity (LD50/LC50-values relevant to classification):**

Exposition	Value/value range	Species	Source
oral	> 2000 mg/kg	rat (Limit Test)	literature
dermal	> 2000 mg/kg	rat (Limit Test)	test report

Material Safety Data Sheet

Material: 60006878

WACKER-BELSIL® PDM 20

Version: 1.2 (US)

Date of print: 22.11.2005

Date of last alteration: 26.09.2003

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	not irritating	rabbit	test report
to eyes	mildly irritating	rabbit	test report

Sensitization:

Exposition	Effect	Test method	Species	Source
to skin	not sensitizing	Magnusson-Kligmann	guinea-pig	test report

Subacute to chronic toxicity:

Species	Test method	End point	Value	Source
rat	Repeated Dose 28-day Oral Toxicity Study in Rodents	NOEL	1000 mg/kg/h/d	literature

Reference points for mutagenic (carcinogenic) potential:

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

Experience with man:

Human patch test: Product displays good compatibility with the skin.

12 Ecological information**12.1 Information on elimination (persistence and degradability)****Biodegradation / further information:**

Biologically not degradable.

12.2 Behaviour in environmental compartments**Further information:**

Bioaccumulation is not expected to occur.

12.3 Ecotoxicological effects:**12.4 Further ecological information****General information:**

If used and handled according to current regulations: According to recent knowledge no hazardous influence to environment.

13 Disposal considerations**13.1 Product disposal****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation.....: not Regulated

14.2 Transport by sea IMDG-Code

Valuation.....: not Regulated

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: not Regulated

Material Safety Data Sheet

Material: 60006878 WACKER-BELSIL® PDM 20

Version: 1.2 (US) Date of print: 22.11.2005 Date of last alteration: 26.09.2003

15 Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

HAPS:

This material does not contain any hazardous air pollutants.

15.2 U.S. State regulations**California Proposition 65 Carcinogens:**

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the state of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

15.3 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 Hazard Classes:

None.

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:

This material contains no listed components.

15.4 Other international regulations**EU Risk Phrases:**

R-Phrase	Description
R-	-

EU Safety Phrases:

S-Phrase	Description
S-	-

Material Safety Data Sheet

Material: 60006878

WACKER-BELSIL® PDM 20

Version: 1.2 (US)

Date of print: 22.11.2005

Date of last alteration: 26.09.2003

Details of international registration status

Listed on the following inventories:

IECSC - China
EINECS - Europe
ENCS - Japan
PICCS - Philippines
ECL - Korea
AICS - Australia

16 Other information**16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This MSDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists	ppm - Parts per Million
DOT - Department of Transportation	SARA - Superfund Amendments and Reauthorization Act
hPa - Hectopascals	STEL - Short Term Exposure Limit
mPa*s - Milli Pascal-Seconds	TSCA - Toxic Substances Control Act
OSHA - Occupational Safety and Health Administration	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods

ASTM D56
ASTM D92, DIN 51376, ISO 2592
ASTM D93, DIN 51758, ISO 2719
ASTM D3278, DIN 55680, ISO 3679
DIN 51755

Common name

Tagliabue (Tag) closed cup
Cleveland open cup
Pensky-Martens closed cup
Setaflash or Rapid closed cup
Abel-Pensky closed cup

16.3 Conversion table:

Pressure: 1 hPa * 0.75 = 1 mm Hg = 1 Torr; 1 bar = 1000 hPa
Viscosity: 1 mPa*s = 1 Centipoise (Cp)