

Safety Data Sheet

DPDM-200

Data Prepared: July 29, 2015



1. Product and company identification

Product Identifier

Product form : Substance
Physical state : Liquid
Substance name : Diphenylsiloxane-Dimethylsiloxane Copolymer
Product code : DPDM-200
Synonyms : Polydimethyldiphenylsiloxane; Dimethyl-Diphenylsiloxane Copolymer
Chemical family : Organosiloxane

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical intermediate
For research and industrial use only

Provided by:

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2. Hazards identification

Classification of the substance or mixture**Classification (GHS-US)**

Not classified

Label elements**GHS-US labeling**

No labeling applicable

Other hazards

No additional information available

Unknown acute toxicity (GHS-US)

No data available

3. Composition/information on ingredients

Substance

Substance type : Polymer
Name : Diphenylsiloxane-Dimethylsiloxane Copolymer
CAS No : 68083-14-7
EC No : 614-272-9

Name	Product identifier	%	Classification (GHS-US)
Polydimethyldiphenylsiloxane	(CAS No) 68083-14-7	>95	Not classified
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	<2	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2B, (H320)

Mixture

Not applicable

4. First aid measures

Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

Symptoms/injuries after ingestion : May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

No additional information available.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Water spray. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : None known.

Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Advice for firefighters

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

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection

Environmental precautions

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

Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

7. Handling and storage

Precautions for safe handling

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Spillage of this material may create a slippery conditions for foot or vehicle traffic.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

Specific end use(s)

No additional information available

8. Exposure controls/personal protection

Control parameters

No additional information available

Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation. If operating at temperatures above 175°C. Mechanical is recommended.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified organic vapor (black cartridge) respirator.

9. Physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid
Molecular mass	: 1600-2400g/mol
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
Refractive index	: 1.49
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: <-60°C
Freezing point	: No data available
Boiling point	: >205°C
Flash point	: 285°C
Auto-ignition temperature	: 488°C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available

Relative density : 1.05
 VOC content : <1%
 Solubility : Insoluble in water
 Log Pow : No data available
 Log Kow : No data available
 Viscosity, kinematic : 150-250 cSt
 Viscosity, dynamic : No data available
 Explosive properties : No data available
 Oxidizing properties : No data available
 Explosive limits : No data available

Other information

No additional information available

10. Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable.

Possibility of hazardous reactions

At temperatures greater than 300°C trace amounts of benzene and formaldehyde may form.

Conditions to avoid

Heat. Open flame. Sparks.

Incompatible materials

Oxidizing agent.

Hazardous decomposition products

Organic acid vapors. Silicone dioxide.

11. Toxicological information

Information on toxicological effects

Acute toxicity : Not classified

Octamethylcyclotetrasiloxane (566-67-2)	
LD50 oral rat	1540 mg/kg
LD50 dermal rat	1770 mg/kg
LD50 dermal rabbit	794 µ/kg
LC50 inhalation rat (mg/l)	36 g/m ³ (Exposure time: 4h)
ATE US (oral)	1540.000 mg/kg body weight
ATE US (dermal)	1770.000 mg/kg body weight
ATE US (vapors)	36.000 mg/l/4h
ATE US (dust, mist)	36.000 mg/l/4h
Polydimethyldiphenylsiloxane (68083-14-7)	
LC50 inhalation rat (mg/l)	18 g/m ³ (Exposure time: 1h)
Ldlo oral rat	16380 mg/kg
ATE US (vapors)	18.000 mg/l/4h
ATE US (dust, mist)	18.000 mg/l/4h

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Not classified
 Eye Irritation- rabbit: 100 uL/24H: mild irritant effect
 Respiratory or skin sensitization : Not classified
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified
 Specific target organ toxicity (single exposure) : Not classified
 Specific target organ toxicity (repeated exposure) : Not classified
 Aspiration hazard : Not classified

Symptoms/injuries after inhalation : May be harmful if inhaled. May cause irritation to the respiratory tract.
 Symptoms/injuries after skin contact : May cause skin irritation.
 Symptoms/injuries after eye contact : May cause eye irritation.
 Symptoms/injuries after ingestion : May be harmful if swallowed.

12. Ecological information

Toxicity

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 fish 1	>500 mg/l (Exposure time: 96 h- Species: Brachydanio rerio)
LC50 fish 2	>1000 mg/l (Exposure time: 96 h- Species: Lepomis machrochirus)

Persistence and degradability

Octamethylcyclotetrasiloxane (556-67-2)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Bioaccumulative potential

Octamethylcyclotetrasiloxane (556-67-2)	
BCF fish 1	12400
Low Pow	5.1

Mobility in soil

No additional information available

Other adverse effects

Effect on ozone layer : No additional information available
 Effect on global warming : No known ecological damage caused by this product.

13. Disposal considerations

Waste treatment methods

Waste disposal recommendations : Incinerate. Dispose in a safe manner in accordance with local/national regulations.
 Ecology-waste materials : Avoid release to the environment.

14. Transport information

UN Number

Not regulated for transport.

UN proper shipping name

Not applicable

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

15. Regulatory information

US Federal regulations

Octamethylcyclotetrasiloxane (556-67-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T-T- indicates a substance that is the subject of a Section 4 test rule under TSCA.
Polydimethyldiphenylsiloxane (68083-14-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

International regulations

Octamethylcyclotetrasiloxane (556-67-2)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on EEC inventory of EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
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Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

US State regulations

Dipheylsiloxane-Dimethylsiloxane Copolymer (68083-14-7)	
U.S. - California-Proposition 65- Carcinogens List	No
U.S. - California-Proposition 65-Developmental Toxicity	No
U.S.- California- Proposition 65- Reproductive Toxicity-Female	No
U.S.- California- Proposition 65- Reproductive Toxicity-Male	No

Octamethylcyclotetrasiloxane (556-67-2)				
U.S.-California-Proposition 65- Carcinogens List	U.S.- California-Proposition 65- Developmental Toxicity	U.S.- California-Proposition 65-Reproductive Toxicity-Female	U.S.- California-Proposition 65-Reproductive Toxicity-Male	No significance risk level (NSRL)
No	No	No	No	

Polydimethyldiphenylsiloxane (68083-14-7)				
U.S.-California-Proposition 65- Carcinogens List	U.S.- California-Proposition 65- Developmental Toxicity	U.S.- California-Proposition 65-Reproductive Toxicity-Female	U.S.- California-Proposition 65-Reproductive Toxicity-Male	No significance risk level (NSRL)
No	No	No	No	

Octamethylcyclotetrasiloxane (556-67-2)	
U.S.-Maine- Chemicals of High Concern	
U.S.- Minnesota- Chemicals of High Concern	
U.S. -Minnesota-Chemicals of High Concern- Persistent Bioaccumulative Toxins	
U.S. -Oregon-Priority Persistent Pollutant- Tier I- Persistent Pollutants	
U.S.-Texas- Effects Screening Levels-Long Term	
U.S.-Texas- Effects Screening Levels-Short Term	

16. Other Information

Abbreviations and acronyms

: Abbreviations: ND: Not determined, No Data; NA; Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H hour; °:°C unless other stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute of Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No: European Commission Registration Number; EC Index Bo.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2B	Serious eye damage/ eye irritation Category 2B
Flam. Liq. 3	Flammable liquids Category 3
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H320	Causes eye irritation

HMIS III Rating

Health : 1 Slight Hazard-Irritation or minor reversible injury possible
 Flammability : 1 Slight Hazard
 Physical : 0 Minimal Hazard

Prepared by safety and environmental affairs.

SDS US (GHS HazCom 2012)- Custom

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.