

Safety Data Sheet CMS-221 Date of issue: 10/30/2014 Version: 1.0

| SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product form : Substance Physical state : Liquid Substance name : (CARBINOL FUNCTIONAL)METHYLSILOXANE-DIMETHYLSILOXANE COPOLYN Product code : CMS-221 Synonyms : POLY(DIMETHYLSILOXANE), HYDROXYPROPYLENE OXIDE MODIFIED; (CARE FUNCTIONAL)METHYL- SILOXANE-DIMETHYLSILOXANE COPOLYMER Chemical family : ORGANOSILOXANE 1.2. 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 1.3. Details of the supplier of the safety data sheet GELEST, INC. 11 East Steel Road Morrisville, PA 19067 USA 21. Steel Road : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) SECTION 2: Hazards identification 21. Classification of the substance or mixture : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) | | | | |
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| | | | | |
| Classification (CHC 110) | | | | |
| Classification (GHS-US) Not classified | | | | |
| 2.2. Label elements | | | | |
| GHS-US labeling No labeling applicable | | | | |
| 2.3. Other hazards | | | | |
| No additional information available | | | | |
| 2.4. Unknown acute toxicity (GHS-US) | | | | |
| No data available | | | | |
| SECTION 3: Composition/information on ingredients | | | | |
| 3.1. Substance | | | | |
| Substance type : Polymer | | | | |
| Name : (CARBINOL FUNCTIONAL)METHYLSILOXANE-DIMETHYLSILOXANE COPOLYMER | | | | |
| CAS No : 68937-54-2 | | | | |
| EC no : 614-822-8 | | | | |
| Name Product identifier % Classification (GH | S-US) | | | |
| Name Product definition 76 Classification (Single Classifi | , | | | |
| copolymer Case of the second | | | | |

3.2. Mixture

Not applicable

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| SECTION 4: First aid measures | |
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| 4.1. 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. |
| 4.2. Most important symptoms and effects | , both acute and delayed |
| Symptoms/injuries after inhalation : | No information available. |
| Symptoms/injuries after skin contact : | May cause skin irritation. |
| Symptoms/injuries after eye contact : | May cause eye irritation. |
| Symptoms/injuries after ingestion : | No information available. |
| 4.3. Indication of any immediate medical a | ttention and special treatment needed |
| No additional information available | |
| SECTION 5: Firefighting measures | |
| 5.1. Extinguishing media | |
| 0 0 | Water spray. Water fog. Foam. Carbon dioxide. Dry chemical. |
| 5.2. Special hazards arising from the subst | |
| Fire hazard : | Irritating fumes and organic acid vapors may develop when material is exposed to elevated |
| | temperatures or open flame. |
| 5.3. 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. |
| SECTION 6: Accidental release measu | res |
| 6.1. Personal precautions, protective equip | |
| | |
| | Evacuate unnecessary personnel. |
| Emergency procedures . | L'actuale dimetessary personnei. |
| 6.1.2. For emergency responders | |
| Protective equipment : | Equip cleanup crew with proper protection. |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. Notify a | uthorities if liquid enters sewers or public waters. |
| 6.3. 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. |
| 6.4. Reference to other sections | |
| See Heading 8. Exposure controls and personal pre- | otection. |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Precautions for safe handling : | Avoid all eye and skin contact and do not breathe vapor and mist. |
| 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. |
| 7.2. 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. |
| 7.3. Specific end use(s) | |
| No additional information available | |

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| 8.1. Control parameters | |
|---|--|
| | |
| No additional information available | |
| 8.2. Exposure controls | |
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. |
| Personal protective equipment | : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should 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. |
| SECTION 9: Physical and chemica | l properties |
| 9.1. Information on basic physical and | I chemical properties |
| Physical state | : Liquid |
| Appearance | : Clear liquid. |
| Molecular mass | : 4000 g/mol |
| Color | : No data available |
| Odor | : No data available |
| Odor threshold | : No data available |
| Refractive index | : 1.419 |
| рН | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : <-20 °C |
| Freezing point | : No data available |
| Boiling point | : > 205 °C |
| Flash point | : > 94 °C |
| Auto-ignition temperature | : No data available |
| 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 | |
| VOC content | : < 5 % |
| Solubility | : Slightly. Soluble in water. |
| Log Pow | : No data available |
| - | |
| Log Kow | : No data available |
| Viscosity, kinematic | : 125 - 150 cSt |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : No data available |

| No | additional | information | available |
|-----|------------|-------------|-----------|
| 110 | uuuuuu | monnution | available |

| SECTI | SECTION 10: Stability and reactivity | | | |
|-----------|--------------------------------------|--|--|--|
| 10.1. | Reactivity | | | |
| No additi | onal information available | | | |
| 10.2. | Chemical stability | | | |
| Stable. | | | | |
| 10.3. | Possibility of hazardous reactions | | | |
| No additi | onal information available | | | |

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| 10.4. Conditions to avoid | | | | | |
|--|--|--|--|--|--|
| Heat. Open flame. Sparks. | | | | | |
| 10.5. Incompatible materials | | | | | |
| Oxidizing agent. | | | | | |
| 10.6. Hazardous decomposition products | | | | | |
| Organic acid vapors. Silicon dioxide. | | | | | |
| SECTION 11: Toxicological information | n | | | | |
| 11.1. Information on toxicological effects | | | | | |
| Acute toxicity : | Not classified | | | | |
| Octamethylcyclotetrasiloxane (556-67-2) | | | | | |
| LD50 oral rat | 1540 mg/kg | | | | |
| LD50 dermal rat | 1770 mg/kg | | | | |
| LD50 dermal rabbit | 794 μl/kg | | | | |
| LC50 inhalation rat (mg/l) | 36 g/m ³ (Exposure time: 4 h) | | | | |
| 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 | | | | |
| Skin corrosion/irritation | : Not classified | | | | |
| Serious eye damage/irritation | : Not classified | | | | |
| 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 : | No information available. | | | | |
| Symptoms/injuries after skin contact : | May cause skin irritation. | | | | |
| Symptoms/injuries after eye contact : | May cause eye irritation. | | | | |
| Symptoms/injuries after ingestion : | No information available. | | | | |
| SECTION 12: Ecological information | | | | | |

SECTION 12: Ecological information

| 12.1. 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 macrochirus) | | | |
| 12.2. Persistence and degradability | | | | |
| Octamethylcyclotetrasiloxane (556-67-2) | | | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | | | |
| 12.3. Bioaccumulative potential | | | | |
| Octamethylcyclotetrasiloxane (556-67-2) | | | | |
| BCF fish 1 | 12400 | | | |
| Log Pow | 5.1 | | | |
| 12.4. Mobility in soil | | | | |
| No additional information available | | | | |
| 12.5. Other adverse effects | | | | |
| Effect on ozone layer | : No additional information available | | | |
| Effect on the global warming | No known ecological damage caused by this product. | | | |

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| 13.1. Waste treatment methods Waste disposal recommendations : Incinentale. Dispose in a safe manner in accordance with local/hational regulations. Ecology - vaste materials : Avoid release to the environment. Sectors - Vaste materials : Avoid release to the environment. Sectors - Vaste materials : Avoid release to the environment. 14.1. UN number No regulated for transport. 14.2. UN proper shipping name No applicable 14.3. Additional information : No supplementary information available. Transport by sea No additional information available Sectors - Regulatory information : No supplementary information available Sectors - Regulatory information : To - notatese a substance that is the subject of a Section 4 test rule under TSCA. (Carbon functional)methy-siloxane display informationane copylemetic (8837542) : Listed on the United States TSCA (Toxe: Substances Control Act) inventory 15.2. International regulations : To - notatese a substance that is the subject of a Section 4 test rule under TSCA. (Carbon functional)methy-siloxane displayer (6837542) : Listed on the United States TSCA (Toxe: Substances Control Act) inventory 15.2. International regulations : Carbon To International Substances) : Listed on the ACS (Austratian Inventory of Chemical Substances) List | SECTION 13: Disposa | l considerations | | | | |
|--|---|---|-------------------------------|-------------------------------------|----------------------------|--|
| Water disposed recommendations incinentale. Dispose in a safe manner in accordance with local/national regulations. incinentale. Dispose in a safe manner in accordance with local/national regulations. incinentale. Section 14: Transport information incinentale. Marginal and information incinentale. incincinentale. incinentale. | | | | | | |
| Ecology - waste materials : Avoid release to the environment. SECTION 14: Transport Information 14.1. UN number Not regulated for transport. 14.2. UN proper shipping name Not applicable 14.3. Additional information Cher information : No supplementary information available. Transport by sea No additional information available Air transport SectroN 15: Regulatory information 15: US Federal regulators Octamethyleyclotetrasiloxane (55: 67:2) Listed on the United States TSCA (Toxic Substances Control Act) inventory EFA TSCA Regulatory information 15: US Federal regulators Octamethyleyclotetrasiloxane (55: 67:2) Listed on the United States TSCA (Toxic Substances Control Act) inventory EFA TSCA Regulatory Fing 1: - Indicates a substance that is the subject of a Section 4 test rule under TSCA. (Gratinol functional)methyl- substances Control Act) inventory EFA TSCA Regulatory Fing Listed on the Canadian DSL (Domestic Substances Poluced or Imported in China) Effect on the Canadian DSL (Domestic Substances Poluced or Imported in China) Listed on the CAR (Austratian Inventory of Chernical Substances) Effect on the CAR (Austrat | | | inerate. Dispose in a safe ma | nner in accordance with local/nativ | onal regulations | |
| Section 14: Transport information 14.1 UN number Not regulated for transport. 14.2 UN propries hipping name Not applicable 14.3 Additional information 0 Other information : No supplementary information available. 0 Transport by sea No additional information available 0 Section 14: Stransport No additional information available 0 Section 14: Sequelatory information : No supplementary information available 0 Section 14: Sequelatory information : No additional information available 0 Section 14: Sequelatory information : No additional information available 0 Section 14: Sequelatory Information 0 0 0 Istate on the United States TSCA (Toxic Substances Control Act) inventory 0 0 0 Istate on the United States TSCA (Toxic Substances Control Act) inventory 0 0 0 0 Used on the ACIS (Austation Inventory of Chenical Substances) 0 0 0 0 0 0 0 0 0 0 0 0 0 | | | • | | | |
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| Not regulated for transport. 14.2. UV proper shipping name Not applicable 14.3. Additional information Content of the function of the second secon | SECTION 14: Transpo | rt information | | | | |
| 14.2. UN proper shipping name Not applicable 24.3. Additional information Chter Information : No supplementary information available. Transport by sea No additional information available SECTION 15: Regulatory information 15.1.05 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. (Carbinol functional)methyl-siloxane (556-67-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory 15.2. International regulations (Carbinol functional)methyl-siloxane copyoner (69397-54-2) Listed on the AICS (Austrafian Inventory of Chemical Substances) Listed on the AICS (Austrafian Inventory of Chemical Substances) Listed on the AICS (Austrafian Inventory of Chemical Substances) inventory Listed on the Canadia DSL (Domestic Sustances) line (Domestic Sustances) Listed on the AICS (Austrafian Inventory of Chemical Substances) inventory Listed on the Canadia DSL (Domestic Sustances) Listed on the AICS (Austrafian Inventory of Chemical Substances) inventory Listed on the Canadia DSL (Domestic Sustances) Listed on the AICS (Austrafian Inventory of Chemical Substances) inventory Listed on the AICS | 14.1. UN number | | | | | |
| Not applicable Not applicable 11.3. Additional information Cherrin Information : No supplementary information available. Transport by sea No additional information available Air transport Sea No additional information available Section 15.1. US Foderal regulatory information 15.1. US Foderal regulatory information 1.1.: Foderal regulatory information 15.1. US Foderal regulatory information 1.1.: Foderal regulatory information 15.1. US Foderal regulatory information 1.1.: Foderal regulatory information 15.1. US Foderal regulatory information 1.1.: Foderal regulatory information 15.1. US Foderal regulatory information 1.1.: Foderal regulatory information 15.2. Informational regulations 1.1.: Foderal regulatory information 15.2. Informational regulatory information substances Control Act) inventory 1.1.: Foderal regulatory information and inductive intervet information and inductive intervet information and regulatory informatin and r | Not regulated for transport. | | | | | |
| Additional information : No supplementary information available. Transport by sea No additional information available Air transport No additional information available Section 11 Section 11 Diversity 11 Section 11 Diversity 12 Section 12 Diversity 12 Section 12 Diversity 22 | 14.2. UN proper shippin | ng name | | | | |
| Other information : No supplementary information available. Tansport by sea No additional information available Sectional information available Sectional information available Sectional information available Sectional information available Sectional information available Sectional Section 15. Regulatory information Sectional information available Sectional Section 15. Regulatory information Sectional information available Detamethyleyclotetrasiloxane (556-67-2) Section 14 test rule under TSCA. Usted on the United States TSCA (Trock Substances Control Act) inventory Ested on the United States TSCA (Trock Substances Control Act) inventory Isted on the Orthord States TSCA (Trock Substances Control Act) inventory (States Control Substances Control Act) inventory (States Control Substances Control Act) inventory (States Control Act) inventory of Chemical Substances) <td>Not applicable</td> <td></td> <td></td> <td></td> <td></td> | Not applicable | | | | | |
| Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information Status Status Section 4: Status Octamethylocylotetrasiloxane (556-67-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory EPA TSCA Regulatory Flag T- 1. indicates a substance that is the subject of a Section 4 test rule under TSCA. (Carbinol functional/methyl- siloxane-dimethylsiloxane cooplymer (68937-54-2) Listed on the United States TSCA (Toxic Substances Control Act) inventory 152. International regulations Octamethylocylotetrasiloxane (556-67-2) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Conventory of Existing Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) inventory Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Cores Chelliphyles Substances List) Listed on the Cores Chelliphylese Inventory of Chemical Substances) | 14.3. Additional informati | on | | | | |
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| Toxicity - Male Octamethylcyclotetrasiloxane (556-67-2) | | | | | | |
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| | Octamethylcyclotetrasiloxane (556-67-2) | | | | | |
| | U.S California - | U.S California - | | | No significance risk level | |
| Proposition 65 - Carcinogens ListProposition 65 - Developmental ToxicityProposition 65 - Reproductive Toxicity - FemaleProposition 65 - Reproductive Toxicity - Male(NSRL) | | | Reproductive Toxicity - | Reproductive Toxicity - | (NSRL) | |
| No No No | No | No | No | No | | |

Safety Data Sheet

| (Carbinol functional)methyl- siloxane-dimethylsiloxane copolymer (68937-54-2) | | | | | |
|---|--|---|---|--------------------------------------|--|
| 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 | | | | | |
| 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 | | | | | |

SECTION 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 otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: 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 Slię |
|--------------|----------|
| Flammability | : 1 Slię |
| Physical | : 0 Mir |

1 Slight Hazard - Irritation or minor reversible injury possible

- : 1 Slight Hazard
 - : 0 Minimal Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

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

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