

Trade name: **SIMONA® VERSADUR® HDPE natural**

Revision: 22.11.2012

Date of printing: 22.01.2013

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| 1. Identification of substance/preparation and company | SIMONA AMERICA Inc. 64 N. Conahan Drive Hazleton, PA 18201 USA Phone: +1 866 501 2992 Fax: +1 800 522 4857 |
| 2. Possible dangers | This product is an "article" as defined in 29 C.F.R. Section 1910.1200. It will not result in exposure to hazardous chemicals under normal conditions of use. Component: High-density polyethylene ACGIH TLV: not applicable OSHA PEL: not applicable Carcinogen status (NTP): No IARC monograph: No OSHA regulated: No |
| 3. Composition / Indications to components | Trade name: SIMONA® VERSADUR® HD PE Synonyms: High-Density Polyethylene Chemical characteristics: polymer of ethylene CAS-Registration-No.: not applicable Formula: not applicable |
| 4. First-aid measures | General comment: Medical aid is not necessary Symptoms / effects: Not expected. If symptoms persist, get medical attention. Never give anything by mouth to an unconscious person. Routes of exposure: none |
| 5. Fire-fighting measures | Flammable limits (STP in air): Lower limits: not applicable - Upper limits: not applicable Fire extinguishing media: CO ₂ , foam, dry chemical, water spray or fog. Personal protection for fighting fire: Fire fighters must wear positive-pressure, self-contained breathing apparatus and full protective clothing. Hazard warning notice: Because static sparking can occur during handling, all flammable materials should be removed from the immediate vicinity. |
| 6. Measures in case of unintended release | Person-related measures: none Environmental protection measures: not applicable Cleaning equipment: not applicable Unsuitable cleaning products: not applicable In case of spill: Shovel spilled material into suitable container. Do not contaminate soil, groundwater, or surface water Disposal method: Incinerate or use RCRA permitted landfill. Follow all federal, state, and local regulations. |
| 7. Handling and storage | Handling: Measures during which smoke gases and vapours are released should be performed with good ventilation. Do not store or consume food in the processing area. Dust and fine particles of dust may develop during processing. Powder, dust and/or fine dust can constitute the risk of a dust explosion. Storage: Avoid excess heat. Do not store near combustible agents. Storage rooms with sprinklers are recommended. |

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| 8. Exposure controls / personal protection | <p>Technical measures (in processing): Always ensure there is effective ventilation and – where necessary – a local extraction system in order to keep away any smoke gases, vapours and/or dust.</p> <p>Personal safety equipment: Breathing masks: If ventilation is adequate, there is no need to wear a breathing mask. Small particles of this product may form during processing. If it is not possible to avoid inhaling particles, a breathing mask must be worn to protect against dust.</p> <p>Hand protection: No special safety equipment required. If material is hot, protective gloves must be worn for handling.</p> <p>Eye protection/body protection: No special safety equipment required.</p> |
| 9. Physical and chemical properties | <p><u>Phenotype</u></p> <p>Phenotype / form: semi-finished product, solid state Color: natural Smell: not applicable</p> <p><u>Change of state</u></p> <p>Crystalline melting range: 258.8° F - 266° F Flash point: ~ 662 °F</p> <p><u>Other remarks</u></p> <p>Density: 0.963 g/cm³</p> |
| 10. Stability and reactivity | <p>Thermal decomposition: above appr. 572°F / 300°C</p> <p>Dangerous decomposition products: Besides carbon black also carbon dioxide and water as well as low molecular parts of PE will develop during the burning process. In case of incomplete burning also carbon monoxide may arise.</p> <p>Use of stabilisers: none Exothermic reactions: none Notices regarding state of aggregation: none Conditions to be avoided: none Substances/media to be avoided: none HMIS ratings (scale 0-4): health = 0, flammability = 1, reactivity = 0</p> |
| 11. Toxic indications | <p>No toxicity tests have been performed for this material. No harm to health was observed over a period spanning several years.</p> |
| 12. Ecological indications | <p>No biodegradation, no solubility in water, no effects being harmful to the environment must be expected.</p> <p>Mobility: not applicable Accumulation: not applicable Eco-toxicity: not applicable</p> |
| 13. Waste-disposal indications | <p>Waste must be recycled or incinerated at approved facilities or disposed of at refuse tips in accordance with federal, state and local regulations.</p> <p>Waste key for the unused product: EAK-Code 120 105 Waste name: waste of polyethylene.</p> |

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| 14. Transport indications | <p>This product is not subject to any regulations as far as national or international transport is concerned. No dangerous product in respect to / according to transport regulations</p> <p>Notice/symbol transport containers: none</p> <p>No dangerous product in respect to / according to transport regulations</p> <p>Notice/symbol transport containers: none</p> <p>Special marking for containers: none</p> <p>Proper shipping name: not regulated</p> <p>Since empty containers retain product residue, follow hazard precautions even after container is emptied.</p> |
| 15. Instructions | <p>All parts of this product are included either on the list of chemicals in the U.S. Poison Control Act or meet TSCA regulations (U.S. TOXIC SUBSTANCES ACT à TSAC)</p> <p>Water hazard class: 0 (self-classification)</p> |
