

MATERIAL SAFETY DATA SHEET

According to (EG) 1907/2006 (REACH)

ERNST HINRICHS GmbH



Date of printing: 07.06.2012

reviewed on: 21.10.2009

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Duplicating silicones

1. Identification of the Substance / Preparation and Company:

Identification of the substance or preparation: Addition-curing duplicating silicone
Commercial product name: Hinrisil, Hinrisil KL, Hinrisil Speed, Hinrisil hydro

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2. Hazards Identification:

Adverse human health effects: Slightly irritating to eyes
Environmental effects: Presents no particular risk to the environment, provided the disposal requirements (see section 13) and national or local regulations are complied with.
Physical and chemical hazards: Combustible liquid. Explosive vapour/air mixtures may be formed above 200°C.
Classification/Specific hazards: According to EEC criteria, this product is not classified as a „hazardous preparation“.

3. Composition / Information on Ingredients:

3.1 Chemical characterization (substance): Polyorganosiloxanes with functional groups + auxiliaries for addition cross-linking

3.2 Components contributing to the hazard:

EG-No.	CAS-No.	Substance	Concentration %	Attributes (EG)
238-878-4	14808-60-7	Quartz	from: – to: <5,0	symbols: Xn R- phrase 48/20

R-phrase	Description
R48/20	Harmful: Danger of serious damage to health by prolonged exposure through inhalation.

4. First aid measures:

4.1 General advice: Inhalation is no primary way of exposition, the measure mentioned in 4.2 is a general advice.
4.2 After inhalation: Step outside and inhale fresh air.
4.3 After contact with the skin: Consult a doctor in case of sickness.
4.4 After contact with the eyes: Wipe off with flannel or paper and rinse with soap and water additionally.
4.5 After contact with the eyes: Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
4.5 After swallowing: Consult a doctor in case of sickness (show the product label if possible).

5. Fire Fighting measures:

5.1 Suitable extinguishing media: Foam, powders, carbon dioxide (CO₂), foam, powders, water spray.
5.2 Extinguishing media which must not be used for safety reasons: None to our knowledge. If there is a fire close by, use suitable extinguishing agents.
5.3 Special hazards: Combustible liquid. When product is thermal decomposed or combusted: Toxic and flammable vapours are released (explosion hazard!).
5.4 Special protective equipment for fire fighting: Wear a self-contained breathing apparatus and well-sealed protective clothing. Water for fire-fighting should be collected and disposed of.

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6. Accidental release measures:

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| 6.1 | Personal precautions: | safety glasses |
| 6.2 | Environmental precautions: | Observe local bye-laws |
| 6.3 | Methods for cleaning up: | Absorb mechanically and dispose of according to regulations.
Absorb with a liquid binding material such as diatomaceous earth and dispose of according to regulations. |

7. Handling and Storage:

- | | | |
|-----|--|---|
| 7.1 | Handling: | |
| | Precautions for safe handling: | Ensure adequate ventilation. |
| | Precautions against fire and explosion: | Product can separate hydrogen. In partly emptied containers liberation of explosive gases is possible. |
| 7.2 | Storage: | |
| | Conditions of storage rooms and vessels: | - |
| | Advice of storage of incompatible materials: | - |
| | Further information for storage: | Protect against moisture. Store in original container only. Keep container tightly closed and store in a well-ventilated place. |

8. Exposure controls / Personal protection:

- | | | |
|-----|---|---|
| 8.1 | Further information for system design and engineering measures: | Not applicable |
| | Limits (U.S.A./A.C.G.I.H.): | TLV (TWA): 0,1 mg/m ³ (for platinum) |
| | Personal protection equipment: | |
| | General protection and hygiene measures: | No special hygiene measures required |
| | Respiratory protection: | Not required. |
| | Hand protection: | Not required. |
| | Eye protection: | Goggles |
| | Skin protection: | Not required. |
| | Hygiene measures: | Do not drink, eat or smoke in the workplace. |

9. Physical and chemical properties:

- | | |
|----------------------------|--|
| Form: | liquid |
| Colour: | transparent or pigmented |
| Odour: | Odourless |
| Decomposition temperature: | > 200 °C |
| Flash point: | > 200 °C |
| Ignition temperature: | > 400 °C |
| Oxidizing properties: | Non oxidizing material according to EEC criteria |
| Vapour pressure: | <0.01 kPa at 20°C |
| Specific gravity: | 1.05 g/cm ³ at 25°C |
| Solubility: | |
| - in water: | Practically insoluble |
| - in organic solvents: | Dispersible (partial solubilisation) in:
diethyl ether, chlorinated solvents, aromatic hydrocarbons (toluene, xylene), aliphatic hydrocarbons |
| Viscosity: | approx. 5000 mPa |

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10. Stability and Reactivity:

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| 10.1 | Stability: | Stable at room temperature |
| 10.2 | Hazardous reactions: | |
| | Materials to avoid: | strong oxidizing agents |
| | Hazardous decomposition products: | On combustion or on thermal decomposition (pyrolysis) releases: flammable vapours which may generate fire or explosion hazards. Toxic gases (Carbon oxides (CO + CO ₂)). |

11. Toxicological Information:

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|------|-------------------|--|
| 11.1 | Acute toxicity: | |
| | LD 50 skin (Rat): | >2000mg/kg. |
| | LD 50 oral (Rat): | >2000mg/kg. |
| 11.2 | Local effects: | may cause temporary irritation to ocular mucous membranes. |

12. Ecological Information:

- | | | |
|------|--|---|
| 12.1 | Information on elimination:
(persistence and degradability):
Biodegradation / further information: | Biologically not degradable. Polydimethyl siloxanes are degradable to a certain extent in biotic processes. |
| 12.2 | Behaviour in environmental
compartments: | |
| | Further information: | Bioaccumulation improbable |
| 12.3 | Ecotoxicological effects: | According to past experience toxicity to fish is improbable |
| 12.4 | Effects in sewage treatment plants
(bacteria toxicity: respiration-
/reproduction inhibition): | According to present experience, no adverse effects on water purification plants |

13. Disposal Considerations:

- | | | |
|------|-------------------------|--|
| 13.1 | Waste from residues: | Prohibition: Do not discharge waste into drains.
Destruction/Disposal: Dilute with a flammable solvent and incinerate at a licensed installation. Dispose of at a licensed waste collection point. Un-vulcanized product: Vulcanized product: May be disposed of with non hazardous industrial waste. |
| 13.2 | Contaminated packaging: | Decontamination/cleaning: Allow it to drain thoroughly. Rinse with an appropriate solvent. Recover the solvent used for rinsing and incinerate at a licensed site. Entrust the thoroughly decontaminated packaging to a licensed waste-contractor. Dispose of at an approved site |
| | Note: | The user's attention is drawn to the possible existence of local regulations regarding disposal. |

14. Transport Information:

- | | |
|--|---|
| Land transport GGVS/ADR and
GGVE/RID: | |
| Road GGVS/ADR: | Valuation - Non-hazardous material |
| Railway GGVE/RID: | Valuation - Non-hazardous material
Express – permitted |
| Inland navigation GGVBinSch/ADNR | |
| Transport by sea GGVSee/IMDG-
Code: | Valuation - Non-hazardous material |
| Air transport ICAO-TI/IATA-DGR : | Valuation - Non-hazardous material |

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15. Regulatory Information:

Labelling:

EEC regulations:

Mandatory labelling (self-classification) of hazardous preparations:

Not applicable

16. Further Information:

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.