SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: OTTO Siloxan 290 L
- Application of the substance / the mixture: Priming

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Hermann Otto GmbH
  Krankenhausstraße 14
  D-83413 Fridolfing
  Tel.: 0049/(0)8684/908-0
  Fax.: 0049/(0)8684/908-539

Further information obtainable from:
- Tel.: 0049- (0)8684- 908- 641 ( -460 )
- E-Mail: alois.parzinger@otto-chemie.de

1.4 Emergency telephone number: Tel.: 0049- (0) 89- 192 40 (emergency telephone no.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - GHS08 health hazard
  - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  - The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms: GHS08
  - Signal word: Danger

Hazard-determining components of labelling:
- Naphtha (petroleum), hydrotreated heavy

2.3 Other hazards

2.3 Results of PBT and vPvB assessment
- PBT: Not applicable.
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: OTTO Siloxan 290 L

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures
· Description: Solvent mixture with additives.
· Dangerous components:
  CAS: 64742-48-9  Naphtha (petroleum), hydrotreated heavy
  EINECS: 265-150-3  Asp. Tox. 1, H304
  50-100%
· Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information
  Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· After inhalation
  Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
· After skin contact
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
· After eye contact
  Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing
  Do not induce vomiting; call for medical help immediately. Show container or label.
· 4.2 Most important symptoms and effects, both acute and delayed
  Headache
  Dizziness
  Nausea
· 4.3 Indication of any immediate medical attention and special treatment needed
  If swallowed or in case of vomiting, danger of entering the lungs

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· For safety reasons unsuitable extinguishing agents
  Water with full jet.
· 5.2 Special hazards arising from the substance or mixture
  Formation of toxic gases is possible during heating or in case of fire.
· 5.3 Advice for firefighters
· Protective equipment:
  Do not inhale explosion gases or combustion gases.
· Additional information
  Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures
  Ensure adequate ventilation
  Keep away from ignition sources
· 6.2 Environmental precautions:
  Do not allow to enter sewers/surface or ground water.
Trade name: OTTO Siloxan 290 L

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.

Information about fire and explosion protection:
Protect against electrostatic charges.
Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear of ignition sources.
Highly volatile, flammable constituents are released during processing.
Flammable gas-air mixtures may form in empty receptacles.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles:
Provide solvent resistant, sealed floor.
Prevent any seepage into the ground.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store receptacle in a well ventilated area.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.
Protection of hands: Protective gloves.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Recommended glove types: nitrile rubber
Recommended thickness of the material: \( \geq 0.3 \text{ mm} \)

Penetration time of glove material Breakthrough time: > 480 min
Eye protection: Tightly sealed goggles.
Body protection: Protective work clothing.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance:**
  - **Form:** Fluid
  - **Colour:** Colourless
  - **Odour:** Characteristic
  - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.
- **Change in condition**
  - **Melting point/Melting range:** undetermined
  - **Boiling point/Boiling range:** > 175 °C
  - **Flash point:** 57 °C
    - Not regulated as flammable liquid Category 3 – CLP-VO app.1, SECTION 2.6.4.5 - Substance does not sustain combustion! (evaluation acc. to ISO 9038)
- **Ignition temperature:**
  - **Decomposition temperature:** Not determined.
- **Self-igniting:**
  - Product is not selfigniting.
- **Danger of explosion:**
  - Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**
  - **Lower:** 0.6 Vol %
  - **Upper:** 7 Vol %
- **Oxidising properties**
  - Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.78 g/cm³
- **Vapour density**
  - Not determined.
- **Evaporation rate**
  - Not determined.
- **Solubility in / Miscibility with Water:** Insoluble
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:** Not determined.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
  - **Thermal decomposition / conditions to be avoided:**
    - No decomposition if used according to specifications.
    - Avoid strong heating.
- **10.3 Possibility of hazardous reactions**
  - Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
- **10.5 Incompatible materials:** Strong oxidizing agents, alkalis, amines, strong acids
- **10.6 Hazardous decomposition products:** see item 5.2

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
Trade name: OTTO Siloxan 290 L

- LD/LC50 values relevant for classification:
  64742-48-9 Naphtha (petroleum), hydrotreated heavy
  Oral  LD50 >5000 mg/kg (rat)
  Dermal LD50 >3000 mg/kg (rab)
- Primary irritant effect:
  - Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Other information (about experimental toxicology):
  Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable. Inhalation of aerosol spray may damage health.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
  - STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard
  May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- Additional ecological information:
  - General notes:
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
    Do not allow product to reach ground water, water course or sewage system.
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation Liquid residues must be specially treated adhering to official regulations.
  - Uncleaned packaging:
    - Recommendation:
      Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
      Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA Void
  - Class
  - 14.4 Packing group
    - ADR, IMDG, IATA Void
  - 14.5 Environmental hazards:
    - Marine pollutant: No
14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable.

Transport/Additional information:
Not dangerous according to the above specifications.

ADR

Remarks:
Road transport: Not regulated in Class 3 - ADR/RID
2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!
Rail transport: Not regulated in Class 3 - ADR/RID
2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!
Ship transport: Not regulated in Class 3 - IMDG
2.3.1.3 - Substance does not sustain combustion!
Air transport: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion!

UN "Model Regulation":
Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Information about limitation of use:
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Details of international registration status:
Listed on or in accordance with the following inventories:
NECI - Taiwan not listed
EINECS - Europe listed
AICS - Australia listed
DSL/NDSL - Canada listed
IECSC - China listed
ENCSC - Japan not listed
NZIoC - New Zealand not listed
PICCS - Philippines listed
ECL/KECI - Korea listed
TSCA - USA listed

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H304 May be fatal if swallowed and enters airways.

Department issuing SDS: Tel.: 0049- (0)8684- 908- 641

Contact: Tel.: 0049- (0)8684- 908- 641 (-460 )

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
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<tbody>
<tr>
<td>GHS</td>
<td>Globally Harmonised System of Classification and Labelling of Chemicals</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Commercial Chemical Substances</td>
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<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstracts Service (division of the American Chemical Society)</td>
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<tr>
<td>LC50</td>
<td>Lethal concentration, 50 percent</td>
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<tr>
<td>LD50</td>
<td>Lethal dose, 50 percent</td>
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<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
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<tr>
<td>vPvB</td>
<td>very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>Asp. Tox. 1</td>
<td>Aspiration hazard – Category 1</td>
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