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

- **1.1 Product identifier**
  - Trade name: OTTO Primer 1217
  - 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.)
    (BASF Plant fire brigade)

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - Classification according to Regulation (EC) No 1272/2008

  ![GHS02 flame](image)
  Flam. Liq. 2 H225 Highly flammable liquid and vapour.

  ![GHS08 health hazard](image)
  Repr. 2 H361d Suspected of damaging the unborn child.
  STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

  ![GHS07](image)
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2 H319 Causes serious eye irritation.
  STOT SE 3 H336 May cause drowsiness or dizziness.

  Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **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**: GHS02, GHS07, GHS08
  - **Signal word**: Danger

  **Hazard-determining components of labelling:**
  - toluene
  - propan-2-ol
  - Isoalkane C7 -C9

  **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
Trade name: OTTO Primer 1217

H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P301+P330+P311 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313 Get medical advice/attention.

**Additional information:**

Contains n-butyl methacrylate, methyl methacrylate. May produce an allergic reaction.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

**3.2 Chemical characterisation: Mixtures**

**Description:** Solvent mixture with additives.

**Dangerous components:**

- **CAS: 67-63-0** propan-2-ol
  - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
  - < 50%
- **CAS: 108-88-3** toluene
  - Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336
  - < 25%
- **CAS: 200-661-7**
  - Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
  - < 25%
- **CAS: 921-728-3** isooalkane C7 -C9
  - Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336
  - < 25%
- **CAS: 71-36-3** butanol
  - Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336
  - < 2.5%
- **CAS: 200-751-6**
  - Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336
  - < 2.5%
- **CAS: 80-62-6** methyl methacrylate
  - Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335
  - < 1%
- **CAS: 97-88-1** n-butyl methacrylate
  - Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335
  - < 1%

**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.

(Contd. of page 3)
Trade name: OTTO Primer 1217

· 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
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
No further relevant information available.

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.

· 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.

· 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.
see item 8: Personal protective equipment

· Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
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.
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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.

7.3 Specific end use(s) No further relevant information available.

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:
    67-63-0 propan-2-ol (< 50%)
    WEL Short-term value: 1250 mg/m³, 500 ppm
    Long-term value: 999 mg/m³, 400 ppm
    108-88-3 toluene (< 25%)
    WEL Short-term value: 384 mg/m³, 100 ppm
    Long-term value: 191 mg/m³, 50 ppm
    Sk
    80-62-6 methyl methacrylate
    WEL Short-term value: 416 mg/m³, 100 ppm
    Long-term value: 208 mg/m³, 50 ppm
  - 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.
      Pregnant women should strictly avoid inhalation or skin contact.
    - Respiratory protection:
      Use suitable respiratory protective device when high concentrations are present.
    - 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.
        Florocarbon rubber (Viton)
        Recommended thickness of the material: > 0.4 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
  - General Information
    - Appearance:
      Form: Fluid
      Colour: Colourless
Trade name: OTTO Primer 1217

- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: undetermined
  - Boiling point/Boiling range: 82 °C
- Flash point: 6 °C
- Ignition temperature: 425 °C
- 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 % (Isoparaffine)
  - Upper: 6.0 Vol % (Isoparaffine)
- Oxidising properties: Not determined.
- Vapour pressure: Not determined.
- Density at 20 °C: 0.83 g/cm³
- Vapour density: Not applicable.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Partly miscible
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity: Not determined.
- Solvent content: 87.05 %

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
  Danger of receptacles bursting because of high vapour pressure when heated
  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.
  LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Compound</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-88-3 toluene</td>
<td>5580 mg/kg (rat)</td>
<td>12400 mg/kg (rab)</td>
<td>28 mg/l (rat)</td>
</tr>
<tr>
<td>Isoalkane C7-C9</td>
<td>Oral LD50 &gt; 5000 mg/kg (rat)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
Trade name: OTTO Primer 1217

Dermal LD50 > 2000 mg/kg (rab)
Inhalative LC50/4 h 21 mg/l (rat)

67-63-0 propan-2-ol
Oral LD50 5840 mg/kg (rat)
Dermal LD50 13900 mg/kg (rab)

Inhalative LC50/4 h 30 mg/l (rat)

Primary irritant effect:
Skin corrosion/irritation
Causes skin irritation.
Serious eye damage/irritation
Causes serious eye irritation.
Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.
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
Suspected of damaging the unborn child.
STOT-single exposure
May cause drowsiness or dizziness.
STOT-repeated exposure
May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

Additional ecological information:
General notes:
Water hazard class 2 (German Regulation) (Self-assessment): 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.
Observe local by-laws.

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, IMDG, IATA
14.2 UN proper shipping name
ADR
UN1993
1993 FLAMMABLE LIQUID, N.O.S.
(ISOPROPAOL, OCTANES)
Trade name: OTTO Primer 1217

- IMDG
  - Flammable liquid, n.o.s. (Isopropanol, Toluene)
- IATA
  - Flammable liquid, n.o.s. (Isopropanol, Toluene)
- 14.3 Transport hazard class(es)
  - ADR
    - Class 3 (F1) Flammable liquids.
    - Label 3
- IMDG, IATA
  - Class 3 Flammable liquids.
  - Label 3
  - 14.4 Packing group
    - ADR, IMDG, IATA
      - II
  - 14.5 Environmental hazards:
    - Marine pollutant: No
  - 14.6 Special precautions for user
    - Warning: Flammable liquids.
    - Danger code (Kemler): 33
    - EMS Number: F-E,S-E
    - Stowage Category B
  - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
    - Not applicable.
- Transport/Additional information:
  - ADR
    - Limited quantities (LQ) 1L
    - Excepted quantities (EQ) Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
    - Transport category 2
    - Tunnel restriction code D/E
  - IMDG
    - Limited quantities (LQ) 1L
    - Excepted quantities (EQ) Code: E2
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 500 ml
    - UN "Model Regulation": UN1993, Flammable liquid, N.O.S. (Isopropanol, Octanes), 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

(Contd. on page 8)
Trade name: OTTO Primer 1217

- 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 2 (Self-assessment): hazardous for water.
- Details of international registration status:
  Listed on or in accordance with the following inventories:
  - EINECS - Europe listed
  - AICS - Australia listed
  - DSL/NDSL - Canada listed
  - IECSC - China listed
  - ENCS - Japan not listed
  - NZIoC - New Zealand not listed
  - PICCS - Philippines listed
  - ECL/KECI - Korea listed
  - TSCA - USA listed
  - NECI - Taiwan not 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
  H225 Highly flammable liquid and vapour.
  H226 Flammable liquid and vapour.
  H302 Harmful if swallowed.
  H304 May be fatal if swallowed and enters airways.
  H315 Causes skin irritation.
  H317 May cause an allergic skin reaction.
  H318 Causes serious eye damage.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.
  H336 May cause drowsiness or dizziness.
  H361d Suspected of damaging the unborn child.
  H373 May cause damage to organs through prolonged or repeated exposure.
  H411 Toxic to aquatic life with long lasting effects.

- Department issuing MSDS: 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
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids, Hazard Category 2
  - Flam. Liq. 3: Flammable liquids, Hazard Category 3
  - Acute Tox. 4: Acute toxicity, Hazard Category 4
  - Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
  - Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
  - Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  - Rep. 2: Reproductive toxicity, Hazard Category 2
**Trade name: OTTO Primer 1217**

<table>
<thead>
<tr>
<th>Hazard Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT SE 3: Specific target organ toxicity</td>
</tr>
<tr>
<td>STOT RE 2: Specific target organ toxicity</td>
</tr>
<tr>
<td>Asp. Tox. 1: Aspiration hazard</td>
</tr>
<tr>
<td>Aquatic Chronic 2: Hazardous to the aquatic</td>
</tr>
<tr>
<td>Aquatic Chronic 3: Hazardous to the aquatic</td>
</tr>
</tbody>
</table>

*Data compared to the previous version altered.*