# Safety data sheet
**according to 1907/2006/EC, Article 31**

*Printing date 01.06.2016* *Version 1* *Revision: 01.06.2016*

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

· **1.1 Product identifier**

· **Trade name: OTTO Primer 1216**
· **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.)
Tel.: 0049/621/60-43333 (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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.


GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.


GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.


GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

· **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, GHS05, GHS07, GHS08, GHS09
· **Signal word** Danger

(Contd. on page 2)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 1)

· **Hazard-determining components of labelling:**
Isoalkane C7-C9
titanium tetrabutanolate
toluene
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic 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+P331 | 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. |

· **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: 90622-56-3<br>EC number: 921-728-3 | Isoalkane C7-C9<br>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336 | 50- 100% |
| CAS: 5593-70-4<br>EINECS: 227-006-8 | titanium tetrabutanolate<br>Flam. Liq. 3, H226; Eye Dam. 1, H318; Skin Irrit. 2, H315; STOT SE 3, H335-H336 | < 10% |
| CAS: 108-88-3<br>EINECS: 203-625-9 | toluene<br>Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336 | < 5% |
| CAS: 78-10-4<br>EINECS: 201-083-8 | tetraethyl silicate<br>Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335 | < 2.5% |

· **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. on page 3)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 2)

· ***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*
*Disziness*
*Disziness*
*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.*
· ***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.*
· ***6.3 Methods and material for containment and cleaning up:***
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
*Use neutralising agent.*
*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 ofignition sources.*
*Highly volatile, flammable constituents are released during processing.*
*Flammable gas-air mixtures may form in empty receptacles.*

(Contd. on page 4)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 3)

· **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:**

**108-88-3 toluene**
OES Short-term value: 574 mg/m³, 150 ppm
Long-term value: 191 mg/m³, 50 ppm
Sk

**78-10-4 tetraethyl silicate**
OES Short-term value: 260 mg/m³, 30 ppm
Long-term value: 87 mg/m³, 10 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.
Fluorocarbon rubber (Viton)
Recommended glove types: nitrile rubber
Recommended thickness of the material: ≥ 0.4 mm
· **Penetration time of glove material** Breakthrough time: > 60 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:** | Yellowish |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **pH-value at 20 °C:** | 7 |

(Contd. on page 5)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 4)

· **Change in condition**
**Melting point/Melting range:** undetermined
**Boiling point/Boiling range:** 116 °C

· **Flash point:** 3 °C

· **Ignition temperature:** 370 °C (EN 14522)

· **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:** 0.9 Vol %
**Upper:** 7.0 Vol %
· **Oxidising properties** Not determined.
· **Vapour pressure at 25 °C:** 50 hPa (EG-RL.A.4)

· **Density at 20 °C:** 0.76 g/cm³
· **Vapour density** Not applicable.
· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**
**Water:** Insoluble

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:** 1 mm²/s (DIN 51562)

* 
## 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 acides
· **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:**

**90622-56-3 Isoalkane C7-C9**

| | | |
|---|---|---|
| Oral | LD50 | > 10000 mg/kg (rat) |
| Dermal | LD50 | > 3000 mg/kg (rat) |
| Inhalative | LC50/4 h | 21 mg/l (rat) |

**108-88-3 toluene**

| | | |
|---|---|---|
| Oral | LD50 | 5580 mg/kg (rat) |
| Dermal | LD50 | 12400 mg/kg (rab) |
| Inhalative | LC50/4 h | 28 mg/l (rat) |

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.

(Contd. on page 6)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 5)

· **Serious eye damage/irritation**
Causes serious eye damage.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **Additional toxicological information:**
Oral Acute toxicity estimate (ATE mix) > 5000 mg/kg (ATE)
· **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** Based on available data, the classification criteria are not met.
· **Aspiration hazard**
May be fatal if swallowed and enters airways.

* 
## SECTION 12: Ecological information

· **Ecotoxical effects:**
· **Remark:** Toxic for fish
· **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.
Also poisonous for fish and plankton in water bodies.
The material is harmful to the environment.
Toxic for aquatic organisms
· **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** UN1993
· **14.2 UN proper shipping name**
· **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (Isoalkane C7 - C10, TOLUENE)
· **IMDG** FLAMMABLE LIQUID, N.O.S. (Isoalkane C7-C9, titanium tetrabutanolate), MARINE POLLUTANT
· **IATA** Flammable liquid, n.o.s. (Isoalkane C7-C9, titanium tetrabutanolate)

(Contd. on page 7)

# Safety data sheet
## according to 1907/2006/EC, Article 31

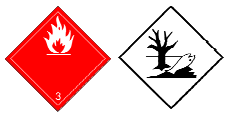
Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 6)

· **14.3 Transport hazard class(es)**

· **ADR**



| | |
|---|---|
| · **Class** | 3 (F1) Flammable liquids. |
| · **Label** | 3 |

· **IMDG**

| | |
|---|---|
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |

· **IATA**

| | |
|---|---|
| · **Class** | 3 Flammable liquids. |
| · **Label** | 3 |
| · **14.4 Packing group** | |
| · **ADR, IMDG, IATA** | II |
| · **14.5 Environmental hazards:** | |
| · **Marine pollutant:** | Yes<br>Symbol (fish and tree) |
| · **Special marking (ADR):** | Symbol (fish and tree) |
| · **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<br>Maximum net quantity per inner packaging: 30 ml<br>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<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · **UN "Model Regulation":** | UN1993, FLAMMABLE LIQUID, N.O.S. (Isoalkane C7 -C10, TOLUENE), ENVIRONMENTALLY HAZARDOUS, 3, II |



(Contd. on page 8)

# Safety data sheet
## according to 1907/2006/EC, Article 31

Printing date 01.06.2016 Version 1 Revision: 01.06.2016

**Trade name: OTTO Primer 1216**

(Contd. of page 7)

* 
## 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** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **National regulations**

· **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 | 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.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
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

(Contd. on page 9)

# Safety data sheet
## according to 1907/2006/EC, Article 31

*Printing date 01.06.2016* *Version 1* *Revision: 01.06.2016*

***Trade name: OTTO Primer 1216***

(Contd. of page 8)

*Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1*
*Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2*
*Repr. 2: Reproductive toxicity, Hazard Category 2*
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*
*STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2*
*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*
*Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2*

· **** Data compared to the previous version altered.***