

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 07.07.2016

Version 1

Revision: 07.07.2016

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

- **1.1 Product identifier**
- **Trade name:** **OTTO Primer 1227**
- **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.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
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, GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
ethyl acetate  
Aromatisches Polyisocyanat- Prepolymer
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.
- **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.

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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.*

- **Additional information:**

*EUH066 Repeated exposure may cause skin dryness or cracking.*  
*Contains isocyanates. 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: 141-78-6	ethyl acetate	< 50%
EINECS: 205-500-4	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 78-93-3	butanone	< 25%
EINECS: 201-159-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 123-86-4	n-butyl acetate	< 10%
EINECS: 204-658-1	Flam. Liq. 3, H226; STOT SE 3, H336	
CAS: 37273-56-6	Aromatisches Polyisocyanat- Prepolymer	< 5%
	Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 1330-20-7	xylene (mix)	< 2.5%
EINECS: 215-535-7	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	< 2.5%
EINECS: 203-603-9	Flam. Liq. 3, H226	

- **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**

Allergic reactions

Headache

Dizziness

Dizziness

Nausea

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- **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**  
CO<sub>2</sub>, 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).  
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.
- **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.

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- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

- **141-78-6 ethyl acetate**

- OES Short-term value: 400 ppm

- Long-term value: 200 ppm

- Rev

- **78-93-3 butanone**

- OES Short-term value: 899 mg/m<sup>3</sup>, 300 ppm

- Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

- IOELV, Sk, Bmgv

- **1330-20-7 xylene (mix)**

- OES Short-term value: 662 mg/m<sup>3</sup>, 150 ppm

- Long-term value: 441 mg/m<sup>3</sup>, 100 ppm

- Sk

- **108-65-6 2-methoxy-1-methylethyl acetate**

- OES Short-term value: 548 mg/m<sup>3</sup>, 100 ppm

- Long-term value: 274 mg/m<sup>3</sup>, 50 ppm

- New, IOELV, Sk

- **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 thickness of the material:  $\geq 0.4$  mm

- **Penetration time of glove material** Breakthrough time: > 30 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

- **Odour:**

- Ester-like

- **Odour threshold:**

- Not determined.

- **pH-value at 20 °C:**

- 7

- **Change in condition**

- **Melting point/Melting range:**

- undetermined

- **Boiling point/Boiling range:**

- 77 °C

- **Flash point:**

- -8 °C

- **Ignition temperature:**

- 333 °C

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- **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:** 2 Vol %
  - Upper:** 12 Vol %
- **Oxidising properties** *Not determined.*
- **Vapour pressure:** *Not determined.*
- **Density at 20 °C:** 1 g/cm<sup>3</sup>
- **Vapour density** *Not applicable.*
- **Evaporation rate** *Not determined.*
- **Solubility in / Miscibility with Water:** *Insoluble*
- **Partition coefficient (n-octanol/water):** *Not determined.*
- **Viscosity at 40 °C:** > 7 mm<sup>2</sup>/s

### 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:**
- 
- 141-78-6 ethyl acetate**
- Oral LD50 > 5000 mg/kg (rat)
- Dermal LD50 > 5000 mg/kg (rbt)
- 78-93-3 butanone**
- Oral LD50 > 2193 mg/kg (rat) (OECD 423)
- Dermal LD50 > 5000 mg/kg (rbt)
- Inhalative LC50/4 h 36 mg/l (rat)
- 123-86-4 n-butyl acetate**
- Oral LD50 > 5000 mg/kg (rat)
- Dermal LD50 > 5000 mg/kg (rbt)
- Inhalative LC50/4 h > 21.4 mg/l (rat)
- 108-65-6 2-methoxy-1-methylethyl acetate**
- Oral LD50 8500 mg/kg (rat)
- Dermal LD50 > 5000 mg/kg (rbt)
- Inhalative LC50/4 h 35.7 mg/l (rat)

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**1330-20-7 xylene (mix)**

Oral LD50 4300 mg/kg (rat) (Quelle: Gestis)

Dermal LD50 1950 mg/kg (rbt)

Inhalative LC50/4 h 21.7 mg/l (rat) (Quelle: Gestis)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, 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**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 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, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))

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## · 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 II
- ADR, IMDG, IATA II
- 14.5 Environmental hazards: No
- 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. (ETHYL ACETATE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 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
- National regulations
- Information about limitation of use:  
Employment restrictions concerning juveniles must be observed.

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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:**

EINECS - Europe	listed
AICS - Australia	listed
DSL/NDSL - Canada	not listed
IECSC - China	not listed
ENCS - Japan	not listed
NZIoC - New Zealand	not listed
PICCS - Philippines	not listed
ECL/KECI - Korea	not 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.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

- **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

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 – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard – Category 1

- **\* Data compared to the previous version altered.**