

according to 2001/58 EC

4151102

Reviewed on: 30/06/2021

Printing date: 30/06/2021

01 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**

- *Trade name:*
UNIVERSALPRIMER 0216-00

- Article number / Safety Data Sheet:
216000

- **Details of the supplier of the safety data sheet**

- *Manufacturer/Supplier:*
Teknos AG
Industriestrasse 7
LI-9487 Gamprin-Bendern
T +423 375 94 00
F +423 375 94 99

- *Further information obtainable from:*
Product safety department. e-mail address: li-sdb@teknos.com

- *Emergency telephone number:*
Swiss Toxicological Information Centre, CH-8032 Zürich Emergency telephone: +41 (0)44 251 51 51 (International)

02 Hazards identification

- *Classification of the substance or mixture*



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.
STOT SE 3 - H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.



GHS09

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

H401 Toxic to aquatic life.

- *Label elements*
- GHS label elements
- Hazard pictograms



GHS05



GHS02



GHS07



GHS09

- Signal word
Danger

- Hazard-determining components of labelling:
butanol

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- Hazard statements
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H226 Flammable liquid and vapour.
 - H317 May cause an allergic skin reaction.
 - H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.
 - H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
 - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - P233 Keep container tightly closed.
 - P240 Ground and bond container and receiving equipment.
 - P302+P352 IF ON SKIN: Wash with plenty of water.
 - P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 - P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

03 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**
 - Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number		%
78-83-1	butanol EC number: 201-148-0 Record number 01-2119484609-23 ☠ Eye Dam. 1 - H318; ☠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, STOT SE 3 - H335-H336	15,00- 25,00
123-86-4	n-butyl acetate EC number: 204-658-1 Record number 01-2119485493-29 ☠ Flam. Liq. 3 - H226; ⚠ STOT SE 3 - H336	15,00- 25,00
1330-20-7	xylene EC number: 215-535-7 Record number 01-2119488216-32 ☠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332, Skin Irrit. 2 - H315	15,00- 25,00
25068-38-6	reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700) EC number: 500-033-5 Record number 01-2119456619-26 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2A - H319, Skin Sens. 1 - H317; ⚠ Aquatic Chronic 2 - H411	1,00- 5,00
100-41-4	ethylbenzene EC number: 202-849-4 Record number 01-2119489370-35 ☠ Flam. Liq. 2 - H225; ⚠ STOT RE 2 - H373, Asp. Tox. 1 - H304; ⚠ Acute Tox. 4	1,00- 5,00

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7779-90-0	- H332 trizinc bis(orthophosphate) EC number: 231-944-3 Record number 01-2119485044-40 ⚠ Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	5,00- 10,00
112-07-2	2-butoxyethyl acetate EC number: 203-933-3 Record number 01-2119475112-47 ⚠ Acute Tox. 4 - H312, Acute Tox. 4 - H332; H227	1,00- 5,00
64-17-5	ethanol EC number: 200-578-6 Record number 01-2119457610-43 ⚠ Flam. Liq. 2 - H225 additives Xi R36 ⚠ Eye Irrit. 2A - H319	1,00- 5,00 0,50- 1,00

04 First aid measures

- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
- **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.

05 Firefighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **Additional information**
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

06 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

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- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Take note of emission threshold.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Not required.
- **Further information about storage conditions:**
Protect from frost.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **Specific end use(s)**
No further relevant information available.

08 Exposure controls/personal protection

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

78-83-1	butanol		
PEL (TW)			
	Long-term value	152	mg/m3
		50	ppm
123-86-4	n-butyl acetate		
PEL (TW)			
	Long-term value	712	mg/m3
		150	ppm
OEL (RC)			
	Short-term value	300	mg/m3
	Long-term value	200	mg/m3
1330-20-7	xylene		
PEL (TW)			
	Long-term value	434	mg/m3
		100	ppm
OEL (RC)			
	Short-term value	100	mg/m3
	Long-term value	50	mg/m3
100-41-4	ethylbenzene		
PEL (TW)			
	Long-term value	434	mg/m3
		100	ppm
OEL (RC)			

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Short-term value	150	mg/m3
Long-term value	100	mg/m3
64-17-5 ethanol		
PEL (TW)		
Long-term value	1880	mg/m3
	1000	ppm

- **Additional information:**

The lists valid during the making were used as basis.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Be sure to clean skin thoroughly after work and before breaks.

- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Suitable respiratory protective device recommended.

- **Protection of hands:** The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves Impervious 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 374 part III are not performed under practical conditions.

Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **Eye protection:** Safety glasses Tightly sealed goggles

- **Body protection:** Protective work clothing

09 Physical and chemical properties

Appearance

Appearance:

Form:	Liquid
Colour:	According to product specifica
Odour:	Characteristic Characteristic
Odour threshold:	Not determined.

Change in condition

Initial boiling point and boiling range: Undetermined.

Flash point: 24 °C

Flammability (solid, gas): Not applicable.

Ignition temperature: 300 °C

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Explosive properties: Not determined.

Explosion limits:

Lower: 1 Vol %

Upper: 27 Vol %

Vapour pressure: at 20 °C 6,0881 mbar

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Density:	1,1600 g/cm3
Solubility in / Miscibility with water:	Not determined.
Viscosity:	Not determined.
.	at 20 °C 21 s DIN 6 mm
Other information	No further relevant information available.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Incompatible materials:**
No further relevant information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
 - 78-83-1 butanol**
Oral, LD50: 2460 mg/kg (rat) Dermal, LD50: 3400 mg/kg (Rabbit) Oral, LD50: 13100 mg/kg (rat) Dermal, LD50: >5000 mg/kg (Rabbit) Inhalative, LC50/4h: >21 mg/l (rat) Oral, LD50: 4300 mg/kg (rat) Dermal, LD50: 2000 mg/kg (Rabbit) Oral, LD50: 3500 mg/kg (rat) Dermal, LD50: 17800 mg/kg (Rabbit) Oral, LD50: >5000 mg/kg (rat) Oral, LD50: 2400 mg/kg (rat) Dermal, LD50: 1580 mg/kg (Rabbit) Oral, LD50: 7060 mg/kg (rat) Inhalative, LC50/4h: 20000 mg/l (rat)
 - 123-86-4 n-butyl acetate**
 - 1330-20-7 xylene**
 - 100-41-4 ethylbenzene**
 - 7779-90-0 trizinc bis(orthophosphate)**
 - 112-07-2 2-butoxyethyl acetate**
 - 64-17-5 ethanol**
- **Primary irritant effect:**
- Skin corrosion/irritation
Irritant to skin and mucous membranes.
- Serious eye damage/irritation
Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation**
Sensitisation possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information

- Aquatic toxicity:
No further relevant information available.
- **Persistence and degradability**
No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential**
No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Toxic for fish
- **Additional ecological information:**

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- **General notes:**
 - Toxic for aquatic organisms
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Also poisonous for fish and plankton in water bodies.


13 Disposal considerations


- **Waste treatment methods**
- **European and swiss waste code**
 - 08
 - WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
 - 08 01
 - wastes from MFSU and removal of paint and varnish
 - 08 01 11
 - waste paint and varnish containing organic solvents or other hazardous substances
- **Uncleaned packaging:**
- **Recommendation:**
 - Disposal must be made according to official regulations.
- **Recommended cleansing agents:**
 - Water, if necessary together with cleansing agents.

14 Transport information


- **UN-Number**
- ADR** UN1263
- IMDG** UN1263
- IATA** UN1263
- **UN proper shipping name**
- ADR** 1263 PAINT
- IMDG** PAINT (TRIZING BIS(ORTHOPHOSPHATE))
- IATA** PAINT
- **Transport hazard class(es)**
- ADR**
- Class** 3 Flammable liquids.
- Label**


3




- IMDG**
- Class** 3 Flammable liquids.
- Label**

3




- IATA**
- Class** 3 Flammable liquids.

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Label• **Packing group****ADR** III**IMDG** III**IATA** III• **Environmental hazards:****Marine pollutant:** Yes• **Special precautions for user**

Warning: Flammable liquids.

Danger code (Kemler): 30**EMS Number:** F-E,S-E• **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

• **Transport/Additional information:**

Not applicable.

Excepted quantities (EQ): E1**Limited quantities (LQ)** 5L**Transport category** 3**Tunnel restriction code** D/E**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** E1• **UN "Model Regulation":**

UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information• **National regulations:**• **Classification according to VbF:**

-

• **Technical instructions (air):**• **Class Share in %**

III 19,00

II 18,00

• **Waterhazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

• **Regulatory control number**

100-41-4 ethylbenzene : 116/01

• **Toxicity classification**

100-41-4 ethylbenzene : 4

• **Control concentration standard (w/w%)**

100-41-4 ethylbenzene : 70

• **Large-scale handling standard (kg)**

100-41-4 ethylbenzene : -

• **TCSI - Taiwan Chemical Substance Inventory**

100-41-4 ethylbenzene

112-07-2 2-butoxyethyl acetate

123-86-4 n-butyl acetate

1330-20-7 xylene

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25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)
64-17-5	ethanol
7779-90-0	trizinc bis(orthophosphate)
78-83-1	butanol

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.
H227	Combustible liquid.
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.
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

- **Department issuing MSDS:**

Environment protection department.

- **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)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * Data compared to the previous version altered.