

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

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




- **1.1 Product identifier**
- **Trade name:** **KEMCO LE Flexo Primer**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified use: intended for professional use only!
- **Application of the substance / the mixture** Priming
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** KEMPER SYSTEM GmbH & Co. KG
Holländische Strasse 32-36
34246 Vellmar
Deutschland / Germany
Telefon: +49 (0)561 / 8295-0
Telefax: +49 (0)561 / 8295-5110
E-Mail: MSDS@KEMPER-SYSTEM.COM
- **Further information obtainable from:** research & development
- **1.4 Emergency telephone number:** Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen
Langenbeckstraße 1; Gebäude 601; 55131 Mainz
Tel. Nr.: +49 (0)6131 / 19 24 0
Universitätsmedizin der Johannes Gutenberg-Universität Mainz

SECTION 2: Hazards identification

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

Flam. Liq. 3	H226	Flammable liquid and vapour.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to the hearing organs through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
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:** xylene
Hexamethylene diisocyanate, oligomers
ethylbenzene
4-isocyanatosulphonyltoluene
dibutyltin dilaurate
- **Hazard statements** H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H373 May cause damage to the hearing 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** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:** EUH204 Contains isocyanates. May produce an allergic reaction.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 1)

- 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: Mixture: consisting of the following components.

- Dangerous components:

CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32	xylene Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 28182-81-2 NLP: 500-060-2 Reg.nr.: 01-2119485796-17	Hexamethylene diisocyanate, oligomers Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate Flam. Liq. 3, H226	12.5-25%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35	ethylbenzene Flam. Liq. 2, H225; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H332; Aquatic Chronic 3, H412	12.5-25%
CAS: 4083-64-1 EINECS: 223-810-8 Index number: 615-012-00-7 Reg.nr.: 01-2119980050-47	4-isocyanatosulphonyltoluene Acute Tox. 3, H331; Resp. Sens. 1, H334; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<0.5%
CAS: 77-58-7 EINECS: 201-039-8 Reg.nr.: 01-2119496068-27	dibutyltin dilaurate Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372; Skin Corr. 1C, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	<0.5%
CAS: 822-06-0 EINECS: 212-485-8 Index number: 615-011-00-1 Reg.nr.: 01-2119457571-37	hexamethylene-di-isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<0.5%

- 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.

Do not leave affected persons unattended.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After inhalation:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

Seek medical treatment in case of complaints.

- After skin contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

- After eye contact:

If symptoms persist consult doctor.

- After swallowing:

- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed

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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 2)

- 5.2 Special hazards arising from the substance or mixture
- 5.3 Advice for firefighters
- Protective equipment:
- Additional information

Use fire extinguishing methods suitable to surrounding conditions.

Formation of toxic gases is possible during heating or in case of fire.

Do not inhale explosion gases or combustion gases.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- 6.2 Environmental precautions:
- 6.3 Methods and material for containment and cleaning up:
- 6.4 Reference to other sections

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
- Information about fire - and explosion protection:
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
- Information about storage in one common storage facility:
- Further information about storage conditions:
- 7.3 Specific end use(s)

Store in cool, dry place in tightly closed receptacles.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Store only in the original receptacle.

Store away from foodstuffs.

Protect from frost.

Store in dry conditions.

Keep container tightly sealed.

Recommended storage temperature: 10-30 °C

No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities:
- 8.1 Control parameters

No further data; see item 7.

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

1330-20-7 xylene

WEL	Short-term value: 441 mg/m ³ , 100 ppm
	Long-term value: 220 mg/m ³ , 50 ppm
	Sk; BMGV

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

WEL	Short-term value: 548 mg/m ³ , 100 ppm
	Long-term value: 274 mg/m ³ , 50 ppm
	Sk

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 3)

100-41-4 ethylbenzene

WEL Short-term value: 552 mg/m³, 125 ppm
Long-term value: 441 mg/m³, 100 ppm
Sk

4083-64-1 4-isocyanatosulphonyltoluene

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

77-58-7 dibutyltin dilaurate

WEL Short-term value: 0.2 mg/m³
Long-term value: 0.1 mg/m³
as Sn; Sk

822-06-0 hexamethylene-di-isocyanate

WEL Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
Sen; as -NCO

- Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine
Medium: urine
Sampling time: post shift
Parameter: methyl hippuric acid

- 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.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- Respiratory protection:

When used properly and under normal conditions, breathing protection is not required.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A/P2

- Protection of hands:

Respiratory protection - Gas filters and combination filters according to EN 141



Protective gloves

Check protective gloves prior to each use for their proper condition.
Only use chemical-protective gloves with CE-labelling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves

Recommended materials:
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
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.

- Penetration time of glove material

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.

- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.1 mm
Penetration time (min.): <10

- Eye protection:



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection:

Protective work clothing

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: KEMCO LE Flexo Primer

Impervious protective clothing

(Contd. of page 4)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form:	Fluid
Colour:	According to product specification
- Odour:	Characteristic
- Odour threshold:	Not determined.

- pH-value: Not determined.

- Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

- Flash point: 25 °C

- Flammability (solid, gas): Not applicable.

- Ignition temperature:

Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

- Density at 20 °C: 0.96 g/cm³

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with water: Not miscible or difficult to mix.

- Partition coefficient: n-octanol/water: Not determined.

- Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

- Solvent content:

VOC (EC) 69.00 %

- 9.2 Other information: No further relevant information available.

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.

- 10.3 Possibility of hazardous reactions

No dangerous reactions known.

- 10.4 Conditions to avoid

No further relevant information available.

- 10.5 Incompatible materials:

No further relevant information available.

- 10.6 Hazardous decomposition products:

No dangerous decomposition products known.

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:

1330-20-7 xylene

Oral	LD50	5,251 mg/kg (mouse)
------	------	---------------------

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 5)

Dermal	LD50	4,300 mg/kg (rat)
Inhalative	LC50/4 h	>2,000 mg/kg (rabbit)
		21.7 mg/l (rat)
28182-81-2 Hexamethylene diisocyanate, oligomers		
Oral	LD50	>5,000 mg/kg (rat) (OECD 423; female)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
		>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	390 mg/l (rat) (OCED 403; Pauluhn, J. (2008).)
108-65-6 2-methoxy-1-methylethyl acetate		
Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat) (AMA Archives of Industrial Health. 14/387; 1956)
Dermal	LD50	15,400 mg/kg (rabbit) (Food and Cosmetics Toxicology. 13/803; 1975)
Inhalative	LC50/4 h	1.5 mg/l (ATE)
4083-64-1 4-isocyanatosulphonyltoluene		
Oral	LD50	2,234 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	0.5 mg/l (ATE)
77-58-7 dibutyltin dilaurate		
Oral	LD50	2,071 mg/kg (rat) (equivalent or similar to OECD 401; Sarasin, G. 1981)
822-06-0 hexamethylene-di-isocyanate		
Oral	LD50	959 mg/kg (rat) (OECD 401)
Dermal	LD50	>7,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	124 mg/l (rat) (OECD 403)

- Primary irritant effect:**- Skin corrosion/irritation**

Causes skin irritation.

- 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 respiratory irritation.

- STOT-repeated exposure

May cause damage to the hearing organs through prolonged or repeated exposure.

- Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- 12.1 Toxicity**- Aquatic toxicity:****1330-20-7 xylene**

LC50/96 h	26.7 mg/l (Pimephales promelas)
LC50	2.6 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
EC50	2.2 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)
IC50	2.2 mg/l (ALGAE)
NOEC	157 mg/l (Belebschlamm) (OECD 209)
	1.17 mg/l (Ceriodaphnia dubia) (7d; US EPA 600/4-91/003)
	>1.3 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (56d)
IC50	1 mg/l (Daphnia magna) (24h; OECD 202)

28182-81-2 Hexamethylene diisocyanate, oligomers

ErC50	>1,000 mg/l (DESMODESMUS SUBSPICATUS) (0-72h static / EU C.3)
	>199 mg/l (Scenedesmus subspicatus) (72h; guideline 67/548/EWG annex V; C3)
EC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (72; OECD 201)
	>100 mg/l (Daphnia magna) (48h)
EC50	>10,000 mg/l (Belebschlamm) (3h, EG/RL 88-302-EEC)

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 6)

EC50	>1,000 mg/l (Scenedesmus subspicatus) (72h / DIN 38412) 127 mg/l (daphnia) (48h static / EU C.2)
LC 50	8.9 mg/l (Brachydanio rerio (Ricefish))
LC50	>100 mg/l (Danio rerio (Zebrabärbling)) (96h)
108-65-6 2-methoxy-1-methylethyl acetate	
LC50/96 h	>100 mg/l (oryzias latipes (Ricefish)) 161 mg/l (fis)
4083-64-1 4-isocyanatosulphonyltoluene	
EC50	133.9 mg/l (Daphnia magna) (48h)
LC 50	48.7 mg/l (fish) (96h)
77-58-7 dibutyltin dilaurate	
EC50	3.1 mg/l (Brachydanio rerio (Ricefish)) >2 mg/l (DESMODESMUS SUBSPICATUS) (72h) 1 mg/l (Scenedesmus subspicatus) 0.66 mg/l (Daphnia magna) (OECD 202)
LC 50	2 mg/l (Leuciscus idus (Goldorfe)) (48h)
LC20	2 mg/l (Leuciscus idus (Goldorfe)) (48h)
822-06-0 hexamethylene-di-isocyanate	
LC0	>82.8 mg/l (Danio rerio (Zebrabärbling)) (96 hours - EU C.1)
ErC50	>77.4 mg/l (DESMODESMUS SUBSPICATUS)
LC50/96 h	22 mg/l (Brachydanio rerio (Ricefish))
NOEC	11.7 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)
EC0	>89.1 mg/l (daphnia) (48 hour - EU C.2)
EC50	842 mg/l (Bacteria) (3h-static - OECD 209)
LOEC	12.6 mg/l (DESMODESMUS SUBSPICATUS) (72 h - EU method C.3)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Harmful to 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.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal according to official regulations
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1263
- **14.2 UN proper shipping name**
- **ADR** 1263 PAINT RELATED MATERIAL

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

(Contd. of page 7)

- IMDG, IATA	PAINT RELATED MATERIAL
- 14.3 Transport hazard class(es) - ADR	
	
- Class - Label	3 (F1) Flammable liquids. 3
- IMDG, IATA	
	
- Class - Label	3 Flammable liquids. 3
- 14.4 Packing group - ADR, IMDG, IATA	III
- 14.5 Environmental hazards: - Marine pollutant:	Product contains environmentally hazardous substances: XyloI No
- 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - Stowage Category	Warning: Flammable liquids. 30 F-E,S-E A
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- Transport category - Tunnel restriction code	3 D/E
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III

SECTION 15: Regulatory information

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

- Directive 2012/18/EU
 - Named dangerous substances - ANNEX I
 - Seveso category
 - Qualifying quantity (tonnes) for the application of lower-tier requirements
 - Qualifying quantity (tonnes) for the application of upper-tier requirements
 - REGULATION (EC) No 1907/2006 ANNEX XVII
 - National regulations:
 - Information about limitation of use:
- None of the ingredients is listed.
P5c FLAMMABLE LIQUIDS
- 5,000 t
- 50,000 t
- Conditions of restriction: 3, 20, 48
- Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning women of child-bearing age must be observed.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.10.2017

Version number 4

Revision: 10.10.2017

Trade name: **KEMCO LE Flexo Primer**

- 15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

(Contd. of page 8)

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.
 H312 Harmful in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H341 Suspected of causing genetic defects.
 H360FD May damage fertility. May damage the unborn child.
 H370 Causes damage to organs.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H373 May cause damage to the hearing organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS:

research & development

- Contact:

research & development

- 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)
 VOC: Volatile Organic Compounds (USA, EU)
 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
 Acute Tox. 1: Acute toxicity – Category 1
 Acute Tox. 3: Acute toxicity – Category 3
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Muta. 2: Germ cell mutagenicity – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- Sources

Internet:
 - www.echa.com
 - www.baua.de
 - www.gestis.itrust.de (IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance)

- * Data compared to the previous version altered.