

according to 1907/2006/EC, Article 31

Printing date 23.11.2023 Version number 9 (replaces version 8) Revision: 23.11.2023

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

- 1.1 Product identifier

- UFI:

**KEMPERTEC EP Primer (B)** - Trade name: 20N4-Y08S-A00P-4GCP

- 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 Primer

- 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

Medical Emergency information in case of poisoning: - 1.4 Emergency telephone number:

Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240

(advisory service in German or English language)

#### **SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

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

- 2.2 Label elements

 Labelling according to Regulation (EC) No 1272/2008

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05 GHS07

- Signal word Danger

- Hazard-determining components of

labelling:

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products

with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Benzyl alcohol

m-phenylenebis(methylamine) Polyoxypropylenediamine H332 Harmful if inhaled.

- Hazard statements

H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water - Precautionary statements

[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. Immediately call a POISON CENTER/doctor.

P310 P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

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- vPvB: Not applicable.

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

- 3.2 Mixtures

- **Description:** Mixture: consisting of the following components.

- Dangerous components:			
	Benzyl alcohol	25-50%	
EINECS: 202-859-9	Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319		
	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-	25-50%	
NLP: 500-101-4	aminomethyl-3,5,5-trimethylcyclohexylamine		
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412		
	m-phenylenebis(methylamine)	≥12.5-<25%	
EINECS: 216-032-5	Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071		
CAS: 9046-10-0	Polyoxypropylenediamine	≥12.5-<25%	
	Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412		

- 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.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

- After eye contact:

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

Protect unharmed eye.

- After swallowing:

- 4.2 Most important symptoms and effects,

both acute and delayed

 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

If symptoms persist consult doctor.

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.

Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing

agents:

- 5.2 Special hazards arising from the

substance or mixture

Water with full jet

In case of fire, the following can be released:

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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

Nitrogen oxides (NOx) Carbon monoxide (CO)

- 5.3 Advice for firefighters

Protective equipment: Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

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- Additional information

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 Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation Avoid contact with skin and eyes

- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.

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

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

- 6.3 Methods and material for containment

and cleaning up:

Do not flush with water or aqueous cleansing agents

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

Dispose contaminated material as waste according to section 13.

- **6.4 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.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**Store in cool, dry place in tightly closed receptacles.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and

receptacles:

Store only in the original receptacle.

 Information about storage in one common storage facility:

- Further information about storage

- Further Informational

Store away from foodstuffs.

Store in dry conditions. Protect from frost.

Keep container tightly sealed.

Recommended storage temperature: 5-30 °C

- Storage class: 8 B

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

### **SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters

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

1477-55-0 m-phenylenebis(methylamine)

OEL Long-term value: 0.1 mg/m³

- Regulatory information OEL: 2021 CoP for the Safety, Health and Welfare at Work

- DNELs

100-51-6 Benzvl alcohol

Inhalative | Acute - systemic effects | 25.8 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

38294-64-3 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Inhalative Acute - systemic effects 2.33 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

1477-55-0 m-phenylenebis(methylamine)

Inhalative | Acute - systemic effects | 1.2 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

Acute - local effects 0.2 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

Additional information: The lists valid during the making were used as basis.

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- 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7. - Individual protection measures, such as 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.

When used properly and under normal conditions, breathing protection is not required. - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A/P2

Respiratory protection - Gas filters and combination filters according to (EN 14387)

- Hand protection

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

Check protective gloves prior to each use for their proper condition.

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

Penetration time (min.): < 480

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 16523-1:2015 are not performed under practical conditions.

>190 °C

Not applicable.

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/face protection



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection: Protective work clothing protective clothing (EN 13034)

#### **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour: Clear - Odour. Amine-like - Odour threshold: Not determined. - Melting point/freezing point: Undetermined.

- Boiling point or initial boiling point and boiling range - Flammability

- Lower and upper explosion limit - Lower: Not determined. Not determined. - Upper:

- Flash point: >90 °C

- Decomposition temperature: Not determined. Not determined.

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(Contd. of page 4) - Viscosity: - Kinematic viscosity at 20 °C 100 mm<sup>2</sup>/s Not determined. - Dynamic: - Solubility - water: Insoluble. - Partition coefficient n-octanol/water (log value) Not determined. - Density and/or relative density - Density at 20 °C: 1.09 a/cm3 - Relative density Not determined. - Vapour density Not determined. - 9.2 Other information - Appearance: - Form: Fluid - Important information on protection of health and environment, and on safety. - Ignition temperature: Product is not selfigniting. - Explosive properties: Product does not present an explosion hazard. - Solvent separation test: - VOC (EC) 5.85 % - Change in condition - Evaporation rate Not determined. - Information with regard to physical hazard classes - Explosives Void - Flammable gases Void - Aerosols Void - Oxidising gases Void - Gases under pressure Void - Flammable liquids Void - Flammable solids Void - Self-reactive substances and mixtures Void - Pyrophoric liquids Void - Pyrophoric solids Void - Self-heating substances and mixtures Void - Substances and mixtures, which emit flammable gases in contact with water Void - Oxidising liquids Void - Oxidising solids Void

### **SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.

- 10.2 Chemical stability

- Organic peroxides

- Corrosive to metals

- Desensitised explosives

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Void

Void

Void

- 10.3 Possibility of hazardous reactions No dangerous reactions known.

- 10.4 Conditions to avoid
 - 10.5 Incompatible materials:
 - 10.6 Hazardous decomposition products:
 No further relevant information available.
 No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Harmful if inhaled.

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		(Contd. of page 5)					
- LD/LC50 Y	- LD/LC50 values relevant for classification:						
100-51-6 F	100-51-6 Benzyl alcohol						
Oral	LD50	1,610 mg/kg (rat) (Loeser 1978)					
Inhalative	Inhalative LC50/4 h 4.178 mg/l (rat) (OECD 403)						
1477-55-0	1477-55-0 m-phenylenebis(methylamine)						
Oral	LD50	940 mg/kg (rat)					
Inhalative	Inhalative LC50/4 h 1.34 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))						
9046-10-0 Polyoxypropylenediamine							
Oral	LD50	2,885 mg/kg (rat)					
Dermal	LD50	2,980 mg/kg (rabbit)					
	LC50	772 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h, Lit.1 (OECD 203))					
- Skin corrosion/irritation Causes severe skin burns and eye damage.							

- Serious eye damage/irritation Causes serious eye damage. - Respiratory or skin sensitisation May cause an allergic skin reaction.

Based on available data, the classification criteria are not met. - Germ cell mutagenicity - Carcinogenicity Based on available data, the classification criteria are not met. - Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. - STOT-single exposure - 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.

- 11.2 Information on other hazards

- Endocrine disrupting properties None of the ingredients is listed.

## **SECTION 12: Ecological information**

- 12 1 Toxicity	

Aquatic to	·
•	enzyl alcohol
	51 mg/kg (Daphnia magna) (OECD 211)
IC50	700 mg/l (ALGAE) (72 h)
LC50/96 h	460 mg/l (Pimephales promelas)
	10 mg/l (Blauer Sonnenbarsch -Lepomis macrochirus)
NOEC	200 mg/l (mouse) (OECD 453)
	400 mg/l (rat) (OECD 453)
EC50	360 mg/l (Daphnia magna) ((48h) Bringmann, Kuehn, 1959)
EC50	770 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50	2,100 mg/l (Belebtschlamm) (OECD 209; 49h)
38294-64-3	4,4'-lsopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5 trimethylcyclohexylamine
LL 50	70.7 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203 stat.test)
EL50	79.4 mg/l (Pseudokirchneriella subcapitata) (72h; stat.test; OECD 201)
	11.1 mg/l (Daphnia magna) (48h, stat.test; OECD 202)
EC50	>1,000 mg/l (Belebtschlamm) (OECD 209)
1477-55-0	m-phenylenebis(methylamine)
LC50/96 h	87.6 mg/l (oryzias latipes (Ricefish))
EC50	15.2 mg/l (daphnia) (48h)
9046-10-0	Polyoxypropylenediamine
EC50	80 mg/l (Daphnia magna) (48h; OECD 202 static)
EC50	15 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201 static)
12.2 Persis	stence 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.

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- 12.5 Results of PBT and vPvB assessment

Not applicable.

vPvB:12.6 Endocrine disrupting properties

Not applicable.

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects

- Remark: Harmful to fish

- Additional ecological information:

- General notes: Harmful to aquatic organisms

Must not reach sewage water or drainage ditch undiluted or unneutralised. 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.

#### **SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods

- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal according to official regulations

- European waste catalogue

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

15 01 10\* packaging containing residues of or contaminated by hazardous substances

17 02 03 plastic

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

_	14	1	IIN	number	or ID	number
_	17.		UIT	HUHHDEL	UI 1D	HUHHDEI

- ADR, IMDG, IATA UN2735

- 14.2 UN proper shipping name

- 14.2 UN proper snipping name

- ADR 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (Polyetheramine, m-

Ш

phenylenebis(methylamine))

- IMDG, IATA AMINES, LIQUID, CORROSIVE, N.O.S. (Polyetheramine, m-phenylenebis(methylamine))

- 14.3 Transport hazard class(es)

- ADR



- Class 8 (C7) Corrosive substances.

- Label

- IMDG. IATA



- Class 8 Corrosive substances.

- Label

- 14.4 Packing group

- ADR, IMDG, IATA

- 14.5 Environmental hazards: Not applicable.

- 14.6 Special precautions for user Warning: Corrosive substances.

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number (Kemler code): 80

- Hazard identification number (Kemler code): 80
- EMS Number: F-A,S-B
- Segregation groups (SGG18) Alkalis

- Stowage Category A

- Segregation Code SG35 Stow "separated from" SGG1-acids

- 14.7 Maritime transport in bulk according to IMO instruments 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
- Tunnel restriction code

- 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": UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (POLYETHERAMINE, M-

PHENYLENEBIS(METHYLAMINE)), 8, II

#### **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 None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX

XVII Conditions of restriction: 3

- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

- Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is 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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

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- Department issuing SDS: research & development - Contact: research & development

03.05.2022 - Date of previous version:

- Version number of previous version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage - Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic PBT: Persistent, bloaccumulative avery Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- www.echa.europa.eu

- www.baua.de

IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:

- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp

- www.dguv.de/ifa/gestis/gestis-dnel-liste

 \* Data compared to the previous version altered.

- Sources