

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.04.2023

Version number 8 (replaces version 7)


Revision: 18.04.2023

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


- 1.1 Product identifier
- Trade name: **KEMCO POX 2K Primer (A) silver grey**
- UFI: T8A9-C04F-K001-D3AU
- 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: Coating
- 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: Medical Emergency information in case of poisoning:
 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
 - Eye Dam. 1 H318 Causes serious eye damage.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
- 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



GHS05



GHS07
- Signal word: Danger
- Hazard-determining components of labelling:
 - Epoxy resin amine adduct
 - N-(3-(trimethoxysilyl)propyl)ethylenediamine
 - maleic anhydride
 - 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate
 - 2-methyl-2H-isothiazol-3-one
- Hazard statements
 - H318 Causes serious eye damage.
 - H317 May cause an allergic skin reaction.
- Precautionary statements
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves / eye protection / face protection.
 - 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.
 - P310 Immediately call a POISON CENTER/doctor.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- 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:

CAS: 260549-92-6	Epoxy resin amine adduct Eye Dam. 1, H318	≥10-≤25%
CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural substance with a Community workplace exposure limit	12.5-25%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) substance with a Community workplace exposure limit	0.5-2.5%
CAS: 1760-24-3 EINECS: 217-164-6	N-(3-(trimethoxysilyl)propyl)ethylenediamine STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H332; Skin Sens. 1B, H317; STOT SE 3, H335	≥1-<2.5%
CAS: 9014-85-1 NLP: 500-022-5	2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.1-<0.5%
CAS: 108-31-6 EINECS: 203-571-6	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥0.001-<0.1%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	<0.0015%

- 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:

Seek medical treatment in case of complaints.

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.

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.
Use fire extinguishing methods suitable to surrounding conditions.

- 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.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment:

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.

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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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

- 6.4 Reference to other sections

Do not flush with water or aqueous cleansing agents
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.

- Information about fire - and explosion protection:

Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.

- 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:

Store away from foodstuffs.

- Further information about storage conditions:

Protect from frost.
Store in dry conditions.
Keep container tightly sealed.
Recommended storage temperature: 5-30 °C

- Storage class:

10

- 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:

7727-43-7 barium sulphate, natural

OEL | Long-term value: 5 mg/m³

14808-60-7 Quartz (SiO₂)

OEL | Long-term value: 0.1 mg/m³

108-31-6 maleic anhydride

OEL | Long-term value: 0.01 ppm
*Inhalable fraction and vapour, Sens

- Regulatory information

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

- DNELs

7727-43-7 barium sulphate, natural

Inhalative	Acute - systemic effects	10 mg/m ³ (Worker) (GESTIS DNEL List (June 2018))
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<p>- Additional information:</p> <p>- 8.2 Exposure controls</p> <p>- Appropriate engineering controls</p> <p>- Individual protection measures, such as personal protective equipment</p> <p>- General protective and hygienic measures:</p>	<p>The lists valid during the making were used as basis.</p> <p>No further data; see item 7.</p> <p>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.</p>
<p>- Respiratory protection:</p>	<p>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 Respiratory protection - Gas filters and combination filters according to (DIN EN 141)</p>
<p>- Hand protection</p>	<p> Protective gloves</p> <p>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 Protective gloves contaminated with product must be removed immediately. After use of gloves apply skin-cleaning agents and skin cosmetics.</p>
<p>- Material of gloves</p>	<p>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.</p>
<p>- Penetration time of glove material</p>	<p>The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.</p>
<p>- As protection from splashes gloves made of the following materials are suitable:</p>	<p>Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.1 mm Penetration time (min.): < 10</p>
<p>- Eye/face protection</p>	<p> Tightly sealed goggles</p> <p>Protective goggles and facial protection - Classification according to EN 166</p>
<p>- Body protection:</p>	<p>protective clothing (EN 13034)</p>

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Colour:	According to product specification
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	100 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	> 110 °C
- Decomposition temperature:	Not determined.

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- pH	Not determined.
- Viscosity:	
- Kinematic viscosity	Not determined.
- Dynamic:	Not determined.
- Solubility	
- water:	Fully miscible.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	1.61 g/cm ³
- 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.	
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product does not present an explosion hazard.
- Solvent separation test:	
- VOC (EC)	0.47 %
- 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	
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

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 hazard classes as defined in Regulation (EC) No 1272/2008	
- Acute toxicity	Based on available data, the classification criteria are not met.

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- LD/LC50 values relevant for classification:

260549-92-6 Epoxy resin amine adduct

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

7727-43-7 barium sulphate, natural

Oral	LD50	>15,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

Oral	LD50	2,295 mg/kg (rat) (K.A)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.965 mg/l /4 h (rat)

9014-85-1 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

Dermal	LD50	>2,000 mg/kg (rabbit)
	LC50	>20 mg/l (rat) (1h)

108-31-6 maleic anhydride

Oral	LD50	400 mg/kg (rat)
Dermal	LD50	2,620 mg/kg (rabbit)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	120 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD Guideline 402 (Acute Dermal Toxicity))
Inhalative	LC50/4 h	0.11 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **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** Based on available data, the classification criteria are not met.
- **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

556-67-2	octamethylcyclotetrasiloxane
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List II, III

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

7727-43-7 barium sulphate, natural

EC50	32 mg/l (Daphnia magna) (Ba-Ion; 48 h)
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1760-24-3 N-(3-(trimethoxysilyl)propyl)ethylenediamine

EC50	8.8 mg/l /21 d (ALGAE)
	597 mg/l /96 h (fish)
	81 mg/l /48 h (Daphnia magna)

9014-85-1 2,4,7,9-Tetramethyl-5-decyne-4,7-diol ethoxylate

LC50/96 h	52 mg/l (Scophthalmus maximus)
LC50	166 mg/l (Acartia tonsa) (48h)

2682-20-4 2-methyl-2H-isothiazol-3-one

EC20	2.8 mg/l (Belebtschlamm) (DIN 38412-3 -TTC Test; 3h)
EC50	34.6 mg/l (Belebtschlamm) (DIN 38412-3 -TTC Test; 3h)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.

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- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- Additional ecological information:
- General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation The national and local legal regulations are to be observed.
- 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: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
- ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
- Class Void
- 14.4 Packing group
- ADR, IMDG, IATA Void
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- UN "Model Regulation": Void

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.

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- 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

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

- Department issuing SDS:

research & development

- Contact:

research & development

- Date of previous version:

29.06.2021

- Version number of previous version:

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- Abbreviations and acronyms:

- ADR: Accord relatif au transport international 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)
- DNEL: Derived No-Effect Level (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 2: Acute toxicity – Category 2
- 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
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Skin Sens. 1B: Skin sensitisation – Category 1B
- 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
- 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

- 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.