

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 28.08.2023

Version number 7 (replaces version 6)


Revision: 28.08.2023


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


- 1.1 Product identifier
- Trade name: **KEMPERDUR EP-Finish (B)**
- UFI: J7UA-60PM-300Q-7U34
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Identified use: intended for professional use only!  
Sealing
- 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
  - Acute Tox. 4 H302 Harmful if swallowed.
  - 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 2 H411 Toxic to aquatic life with long lasting effects.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms
 

  
GHS05

  
GHS07

  
GHS09

The product is classified and labelled according to the CLP regulation.
- Signal word: Danger
- Hazard-determining components of labelling:
  - Polyoxypropylenediamine
  - m-phenylenebis(methylamine)
  - 3-aminomethyl-3,5,5-trimethylcyclohexylamine
  - Phenol, styrenated
- Hazard statements
  - H302+H332 Harmful if swallowed or if inhaled.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
  - 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.
  - 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.

## - Determination of endocrine-disrupting properties

61788-44-1 Phenol, styrenated

List II

### SECTION 3: Composition/information on ingredients

## - 3.2 Mixtures

- Description: Mixture: consisting of the following components.

## - Dangerous components:

CAS: 9046-10-0	Polyoxypropylenediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	25-50%
CAS: 61788-44-1 EINECS: 262-975-0	Phenol, styrenated Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	25-50%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) 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	≥12.5-<25%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥12.5-<25%

- 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.

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:

CO<sub>2</sub>, 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

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 (NO<sub>x</sub>)

Carbon monoxide (CO)

## - 5.3 Advice for firefighters

## - Protective equipment:

Wear self-contained 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.

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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).  
Use neutralising agent.  
Dispose contaminated material as waste according to section 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.  
Prevent formation of aerosols.

**- Information about fire - and explosion protection:**

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

**- 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:**

Do not store together with oxidising and acidic materials.  
Store away from foodstuffs.

**- Further information about storage conditions:**

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

**- Storage class:**

8 A

**- 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/m<sup>3</sup>

**- Regulatory information**

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

**- DNELs**

**1477-55-0 m-phenylenebis(methylamine)**

Inhalative	Acute - systemic effects	1.2 mg/m <sup>3</sup> (Worker) (GESTIS DNEL List (June 2018))
	Acute - local effects	0.2 mg/m <sup>3</sup> (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.
- **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  
Respiratory protection - Gas filters and combination filters according to (DIN EN 141)
- **Hand protection**



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:  $\geq 0.5$  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.  
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:  $\geq 0.1$  mm  
Penetration time (min.):  $< 10$
- **Eye/face protection**



Tightly sealed goggles
- **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:** Light yellow
- **Odour:** Amine-like
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Undetermined.
- **Boiling point or initial boiling point and boiling range**  $>200$  °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** 1.2 Vol %
- **Upper:** 13 Vol %
- **Flash point:**  $>100$  °C
- **Auto-ignition temperature:** 300 °C
- **Decomposition temperature:** 300 °C
- **Decomposition temperature:** Not determined.

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- pH at 20 °C	11
- Viscosity:	
- Kinematic viscosity at 20 °C	200 mm <sup>2</sup> /s
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	1.02 g/cm <sup>3</sup>
- Relative density	Not determined.
- Vapour density	Not determined.

<b>- 9.2 Other information</b>	
- Appearance:	
- Form:	Fluid
<b>- Important information on protection of health and environment, and on safety.</b>	
- Ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product does not present an explosion hazard.
- Solvent separation test:	
- VOC (EC)	2.90 %
- Change in condition	
- Evaporation rate	Not determined.

<b>- Information with regard to physical hazard classes</b>	
- 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
- 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

<b>- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>	
- Acute toxicity	Harmful if swallowed or if inhaled.

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**- LD/LC50 values relevant for classification:**

**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))

**61788-44-1 Phenol, styrenated**

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

**1477-55-0 m-phenylenebis(methylamine)**

Oral	LD50	940 mg/kg (rat)
Inhalative	LC50/4 h	1.34 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **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.
- **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**

61788-44-1 Phenol, styrenated

List II

## SECTION 12: Ecological information

**- 12.1 Toxicity**

**- Aquatic toxicity:**

**9046-10-0 Polyoxypropylenediamine**

EC50	80 mg/l (Daphnia magna) (48h; OECD 202 static)
EC50	15 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201 static)

**61788-44-1 Phenol, styrenated**

LL 50	14.8 mg/l (fish) (96h)
EL50	3.14 mg/l (Scenedesmus subspicatus) (72h)
	1-10 mg/l (Daphnia magna) (48h)

**1477-55-0 m-phenylenebis(methylamine)**

LC50/96 h	87.6 mg/l (oryzias latipes (Ricefish))
EC50	15.2 mg/l (daphnia) (48h)

**2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine**

LC50/96 h	110 mg/l (Brachydanio rerio (Ricefish))
EC50	23 mg/l (daphnia)
	15.2 mg/l (Daphnia magna)
EC50	37 mg/l (Scenedesmus subspicatus)
LC 50	87.6 mg/l (oryzias latipes (Ricefish)) (96h)

- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- 12.6 Endocrine disrupting properties
- 12.7 Other adverse effects
- Additional ecological information:
- General notes:

For information on endocrine disrupting properties see section 11.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous. 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.

### SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR, IMDG, IATA

UN2735

- 14.2 UN proper shipping name
- ADR

2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine), ENVIRONMENTALLY HAZARDOUS

- IMDG

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine), MARINE POLLUTANT

- IATA

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-Cyclohexanedimethanamine)

- 14.3 Transport hazard class(es)

- ADR



- Class

8 (C5) Corrosive substances.

- Label

8

- IMDG



- Class

8 Corrosive substances.

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- Label	8
- IATA	
	
- Class	8 Corrosive substances.
- Label	8
- 14.4 Packing group	
- ADR, IMDG, IATA	II
- 14.5 Environmental hazards:	
- Marine pollutant:	No Symbol (fish and tree)
- Special marking (ADR):	Symbol (fish and tree)
- 14.6 Special precautions for user	Warning: Corrosive substances.
- 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	2
- Tunnel restriction code	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":	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (1,3-CYCLOHEXANEDIMETHANAMINE), 8, II, ENVIRONMENTALLY HAZARDOUS

## 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
- |   |  |
|---|--|
| None of the ingredients is listed.      |  |
| E2 Hazardous to the Aquatic Environment |  |
| 200 t                                   |  |
| 500 t                                   |  |
| 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.

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**- 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

**- Department issuing SDS:**

research & development

**- Contact:**

research & development

**- Date of previous version:**

24.01.2022

**- 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. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1A: Skin sensitisation – Category 1A
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**- Sources**

- [www.echa.europa.eu](http://www.echa.europa.eu)
- [www.baua.de](http://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](http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp)
- [www.dguv.de/ifa/gestis/gestis-dnel-liste](http://www.dguv.de/ifa/gestis/gestis-dnel-liste)

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