

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.08.2025

Version number 8 (replaces version 7)

Revision: 21.08.2025

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

1.1 Product identifier

Trade name: **PR Speed 1 Min Part B**

Article number: 87307_B

UFI: RW41-R090-C006-AC23

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Adhesives

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

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

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'-methylenebis(cyclohexylamine)
trimethoxyvinylsilane

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P261 Avoid breathing vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P310

Immediately call a POISON CENTER/doctor.

P333+P313

If skin irritation or rash occurs: Get medical advice/attention.

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.

· vPvB:

Not applicable.

· Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients**· 3.2 Mixtures**· Description:

Mixture: consisting of the following components.

· Dangerous components:

CAS: 25214-63-5 NLP: 500-035-6 Reg.nr.: 01-2119471485-32-0002	ethylenediamine, propoxylated Eye Irrit. 2, H319	50-100%
CAS: 1761-71-3 EINECS: 217-168-8 Reg.nr.: 01-2119541673-38-xxxx	4,4'-methylenebis(cyclohexylamine) STOT RE 2, H373 Skin Corr. 1A, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317	1-5%
CAS: 2768-02-7 EINECS: 220-449-8 Index number: 014-049-00-0 Reg.nr.: 01-2119513215-52-0003	trimethoxyvinylsilane Flam. Liq. 3, H226 Acute Tox. 4, H332; Skin Sens. 1B, H317	1-5%

· 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.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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

· After skin contact:

If skin irritation continues, consult a doctor.

· After eye contact:

Immediately wash with water and soap and rinse thoroughly.

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

· After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

· **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.

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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.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Nitrogen oxides (NO_x)

· 5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Mount respiratory protective device.

SECTION 6: Accidental release measures**· 6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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 section 13.
Ensure adequate ventilation.

· 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**

Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

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.
Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from oxidising agents.
Do not store together with acids.

· Further information about storage conditions:

Protect from frost.
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Protect from humidity and water.
Protect from heat and direct sunlight.

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- 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:

2768-02-7 trimethoxyvinylsilane

TLV-ACGIH	Short-term value: 328 mg/m ³ , 250 ppm
	Long-term value: 262 mg/m ³ , 200 ppm

- DNELs

25214-63-5 ethylenediamine, propoxylated

Oral	DNEL (Langzeit-wiederholt)	8.3 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	13.9 mg/kg bw/day (ARB)
		8.3 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	98 mg/m ³ Air (ARB)
		29 mg/m ³ Air (BEV)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

Oral	DNEL (Langzeit-wiederholt)	0.06 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	0.1 mg/kg bw/day (ARB)
		0.06 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	1 mg/m ³ Air (ARB)
		0.21 mg/m ³ Air (BEV)

2768-02-7 trimethoxyvinylsilane

Oral	DNEL (Langzeit-wiederholt)	0.3 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	0.2 mg/kg bw/day (ARB)
		0.1 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	3.9 mg/kg bw/day (ARB)
		7.8 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	4.9 mg/m ³ Air (ARB)
		93.4 mg/m ³ Air (BEV)
	DNEL (Langzeit-wiederholt)	27.6 mg/m ³ Air (ARB)
		6.7-18.9 mg/m ³ Air (BEV)

- PNECs

25214-63-5 ethylenediamine, propoxylated

PNEC (wässrig)	70 mg/l (KA)
	0.0085 mg/l (MW)
	0.085 mg/l (SW)
PNEC (fest)	0.0183 mg/kg Trockengew (BO)
	0.34 mg/kg Trockengew (MWS)
	0.34 mg/kg Trockengew (SWS)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

PNEC (wässrig)	80 mg/l (KA)
	0.0008 mg/l (MW)
	0.008 mg/l (SW)
PNEC (fest)	0.072 mg/kg Trockengew (BO)

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	0.039 mg/kg Trockengew (MWS) 0.39 mg/kg Trockengew (SWS)
2768-02-7 trimethoxyvinylsilane	
PNEC (wässrig)	6.6 mg/l (KA) 0.036 mg/l (MW) 0.36 mg/l (SW) 2.4 mg/l (WAS)
PNEC (fest)	0.06 mg/kg Trockengew (BO) 0.15 mg/kg Trockengew (MWS) 1.5 mg/kg Trockengew (SWS)

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

· **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:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

· Respiratory protection:

Short term filter device:
Filter A/P2

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR
Nitrile rubber, NBR

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

Butoject (KCL, Art_No. 897, 898)
Butyl rubber, BR
Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Leather gloves
Strong material gloves

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· Eye/face protection

Tightly sealed goggles

· Body protection:

Light weight protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· General Information

· <u>Colour:</u>	Black
· <u>Odour:</u>	Specific type
· <u>Odour threshold:</u>	Not determined.
· <u>Melting point/freezing point:</u>	Undetermined.
· <u>Boiling point or initial boiling point and boiling range</u>	>300 °C
· <u>Flammability</u>	Not applicable.
· <u>Lower and upper explosion limit</u>	
· <u>Lower:</u>	Not determined.
· <u>Upper:</u>	Not determined.
· <u>Flash point:</u>	>150 °C
· <u>Decomposition temperature:</u>	Not determined.
· <u>pH</u>	Not determined.
· <u>Viscosity:</u>	
· <u>Kinematic viscosity</u>	Not determined.
· <u>Dynamic at 20 °C:</u>	1,400-1,800 mPas
· <u>Solubility</u>	
· <u>water:</u>	Hydrolised.
· <u>Partition coefficient n-octanol/water (log value)</u>	Not determined.
· <u>Vapour pressure:</u>	Not determined.
· <u>Density and/or relative density</u>	
· <u>Density at 20 °C:</u>	1.02 g/cm ³
· <u>Relative density</u>	Not determined.
· <u>Vapour density</u>	Not determined.

· **9.2 Other information**

· <u>Appearance:</u>	
· <u>Form:</u>	Fluid
· <u>Important information on protection of health and environment, and on safety.</u>	
· <u>Ignition temperature:</u>	Product is not selfigniting.
· <u>Explosive properties:</u>	Product does not present an explosion hazard.
· <u>Change in condition</u>	
· <u>Evaporation rate</u>	Not determined.

· Information with regard to physical hazard classes

· <u>Explosives</u>	Void
· <u>Flammable gases</u>	Void
· <u>Aerosols</u>	Void
· <u>Oxidising gases</u>	Void
· <u>Gases under pressure</u>	Void
· <u>Flammable liquids</u>	Void
· <u>Flammable solids</u>	Void
· <u>Self-reactive substances and mixtures</u>	Void
· <u>Pyrophoric liquids</u>	Void
· <u>Pyrophoric solids</u>	Void
· <u>Self-heating substances and mixtures</u>	Void

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· 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	Reacts with acids, alkalis and oxidising agents.
· 10.4 Conditions to avoid	Heat, flames and other sources of ignition
· 10.5 Incompatible materials:	strong oxidizing agents Water

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.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	15,625 mg/kg (rat)
Inhalative	LC50/4 h	420 mg/l (rat)

25214-63-5 ethylenediamine, propoxylated

Oral	LD50	>2,000 mg/kg (rat)
	NOAEL-Werte	1,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

Oral	LD50	625 mg/kg (rat)
Dermal	LD50	2,110 mg/kg (rabbit)

2768-02-7 trimethoxyvinylsilane

Oral	LD50	6,899-7,120 mg/kg (rat) (OECD 401)
	NOAEL-Werte	250 mg/kg (rat) (OECD422)
Dermal	LD50	3,158-3,760 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4h	16.8 mg/m3 (rat) (OECD 403)
	LC50/4 h	16.8 mg/l (rat)
	NOAEC	0.058-1.7 mg/l (rat) (EPA OTS)

· Primary irritant effect:	
· Skin corrosion/irritation	Causes skin irritation.
· 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.

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· 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 toxicity:**25214-63-5 ethylenediamine, propoxylated**

IC50/72h	>100 mg/l (Desmodesmus subspicatus)
EC50/48h	>100 mg/l (daphnia magna)
ErC50/72h	150.67 mg/l (Desmodesmus subspicatus)
NOEC	700 mg/l (BES)
NOEC/21d	≥10 mg/l (daphnia magna)
LC50/96h	>100 mg/l (Brachydanio rerio)
	4,870 mg/l (Danio rerio.)
	4,600 mg/l (Leuciscus idus)

1761-71-3 4,4'-methylenebis(cyclohexylamine)

EC50/48h	6.84 mg/l (daphnia magna)
EC50/30min	80 mg/l (pseudomonas putida)
EC50/72h	140-200 mg/l (Scenedesmus subspicatus)
LC50/96h	46-100 mg/l (Leuciscus idus)

2768-02-7 trimethoxyvinylsilane

IC50/72h	210 mg/l (selenastrum capricornutum)
EC50/48h	169 mg/l (daphnia magna) (OECD 202)
EC10/5h	1,000 mg/l (pseudomonas putida)
ErC50/72h	>957 mg/l (Desmodesmus subspicatus) (OECD 201)
	>89 mg/l (Pseudokirchneriella subcapitata)
EC50/8d	210 mg/l (Pseudokirchneriella subcapitata)
NOEC	28 mg/kg (daphnia magna) (OECD 211)
	25 mg/kg (Selenastrum capricornutum)
NOELR/72h	>957 mg/l (Desmodesmus subspicatus) (=ECD 201)
	≥89 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	28.1 mg/l (daphnia magna) (OECD 211)
EC10	1,000 mg/l (pseudomonas putida)
	32 mg/l (selenastrum capricornutum)
LC50/96h	>100 mg/l (Danio rerio.) (OECD 203)
	191 mg/l (Oncorhynchus mykiss) (OECD 203)

· **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**

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

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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.

· European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances

· Uncleaned packaging:

· Recommendation:

Disposal must be made according to official regulations.

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.

· Transport/Additional information:

Not dangerous according to the above specifications.

· UN "Model Regulation":

Void

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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.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 3 (Self-assessment): extremely hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 0.0 g/l

· 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.

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory

· Date of previous version: 15.11.2023

· Version number of previous version: 7

· 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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
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
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

EU