



Safety Data Sheet

according to Regulation (EC) No 1907/2006

PV45-PRO, Comp. A

Print date: 09.11.2017

Product code: SDB0034

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

1.1. Product identifier

PV45-PRO, Comp. A

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

Use of the substance/mixture

Adhesive mortar for fastening elements A-component (resin)

Uses advised against

no restriction

1.3. Details of the supplier of the safety data sheet

Company name:	DEWALT	
Street:	Richard Klinger Str. 11	
Place:	65510 Idstein, Germany	
Telephone:	+49 (0) 6126 21 2302	Telefax: +49 (0) 6126 21 2980
Internet:	www.DEWALT.eu	

1.4. Emergency telephone number:

CHEMTREC UK (London): +(44) 870 8200418
CHEMTREC International: +1 703 527 3887 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Hazard Statements:

May cause an allergic skin reaction.

Causes serious eye irritation.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

tetramethylene dimethacrylate

ethylene dimethacrylate

Methacrylic acid, monoester with propane-1,2-diol

1,4-naphthoquinone

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.



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P302+P352 IF ON SKIN: Wash with plenty of water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
2082-81-7	tetramethylene dimethacrylate			15 - < 20 %
	218-218-1		01-2119967415-30	
	Skin Sens. 1B; H317			
25013-15-4	Vinyltoluene			5 - < 10 %
	246-562-2		01-2119622074-50	
	Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H315 H319 H304 H412			
97-90-5	ethylene dimethacrylate			1 - < 5 %
	202-617-2	607-114-00-5		
	STOT SE 3, Skin Sens. 1; H335 H317			
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			1 - < 5 %
	248-666-3		01-2119490226-37	
	Eye Irrit. 2, Skin Sens. 1; H319 H317			
3077-12-1	N,N-Bis(2-hydroxyethyl)-p-toluidin			1 - < 5 %
	221-359-1			
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1; H302 H315 H318			
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol			< 1 %
	254-075-1			
	Acute Tox. 2, Eye Irrit. 2, Aquatic Chronic 3; H300 H319 H412			
130-15-4	1,4-naphthoquinone			< 0.1 %
	204-977-6			
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1C, Eye Irrit. 2, Skin Sens. 1A, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H319 H317 H335 H400 H410			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.



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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.

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

Allergic reactions

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing powder
Water spray jet
Carbon dioxide (CO₂).

Unsuitable extinguishing media

Full water jet
Foam.

5.2. Special hazards arising from the substance or mixture

Pyrolysis products, toxic
Carbon monoxide.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling



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Advice on safe handling

Use only outdoors or in a well-ventilated area.
When using do not eat, drink or smoke.
Wash hands before breaks and after work.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Keep only in the original container in a cool, well-ventilated place.

Advice on storage compatibility

Do not use for products which come into contact with the food stuffs.

Further information on storage conditions

storage temperature : 5 - 25°C

7.3. Specific end use(s)

Adhesive mortar for fastening elements A-component (resin)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
2082-81-7	tetramethylene dimethacrylate			
Worker DNEL, long-term		inhalation	systemic	14,5 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	4,3 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			
Worker DNEL, long-term		inhalation	systemic	14,7 mg/m ³
Worker DNEL, long-term		dermal	systemic	4,2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	8,8 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol			
Worker DNEL, long-term		inhalation	systemic	2 mg/m ³
Worker DNEL, long-term		dermal	systemic	0,6 mg/kg bw/day



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PNEC values

CAS No	Substance	Value
Environmental compartment		
2082-81-7	tetramethylene dimethacrylate	
Freshwater		0,087 mg/l
Marine water		0,0087 mg/l
Freshwater sediment		3,12 mg/kg
Marine sediment		0,312 mg/kg
Micro-organisms in sewage treatment plants (STP)		
Soil		0,573 mg/kg
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	
Freshwater		0,904 mg/l
Marine water		0,904 mg/l
Freshwater sediment		6,28 mg/kg
Marine sediment		6,28 mg/kg
Micro-organisms in sewage treatment plants (STP)		
Soil		0,727 mg/kg
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	
Freshwater		0,017 mg/l
Marine water		0,0017 mg/l
Freshwater sediment		0,0782 mg/kg
Marine sediment		0,00782 mg/kg
Micro-organisms in sewage treatment plants (STP)		
Soil		0,005 mg/kg

8.2. Exposure controls



Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): 0,4mm NBR (Nitrile rubber) >480min (EN374)

Wearing time with permanent contact 0,5mm NBR (Nitrile rubber) >480min (EN374)



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Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	light beige	
		Test method
pH-Value:		not determined
Changes in the physical state		
Melting point:		not determined
Initial boiling point and boiling range:		not determined
Flash point:		not applicable
Flammability		
Solid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Auto-ignition temperature		
Solid:		not determined
Gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties		
Not oxidizing.		
Vapour pressure:		not determined
Density (at 20 °C):		1,72 g/cm ³
Water solubility:		insoluble
Solubility in other solvents		
not determined		
Partition coefficient:		not determined
Vapour density:		not determined
Evaporation rate:		not determined
9.2. Other information		
Solid content:		not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions



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No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
2082-81-7	tetramethylene dimethacrylate			
	oral	LD50 >5000 mg/kg	Rat	
	dermal	LD50 >3000 mg/kg	Rabbit	
25013-15-4	Vinyltoluene			
	oral	LD50 2000-5000 mg/kg	Rat	
	dermal	LD50 2000-5000 mg/kg	Rabbit	
	inhalative vapour	LC50 17,8 mg/l	Rat	
	inhalative aerosol	ATE 1,5 mg/l		
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol			
	oral	LD50 11200 mg/kg	Rat	
	dermal	LD50 > 5000 mg/kg	Rabbit	
3077-12-1	N,N-Bis(2-hydroxyethyl)-p-toluidin			
	oral	LD50 > 300 mg/kg	Rat	
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol			
	oral	LD50 27,5 mg/kg	Rat	
	dermal	LD50 >2000 mg/kg		
130-15-4	1,4-naphthoquinone			
	oral	LD50 190 mg/kg	Rat	
	dermal	LD50 202 mg/kg	Rat	
	inhalative vapour	ATE 0,5 mg/l		
	inhalative aerosol	LC50 46 mg/l	Rat	

Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Further information

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



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SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	
2082-81-7	tetramethylene dimethacrylate					
	Acute fish toxicity	LC50	32,5 mg/l	96 h		
	Algae toxicity	NOEC	2,11 mg/l	3 d		
	Crustacea toxicity	NOEC	5,09 mg/l	21 d		
	Acute bacteria toxicity	(32,5 mg/l)				
25013-15-4	Vinyltoluene					
	Acute fish toxicity	LC50	5,2 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute algae toxicity	ErC50	2,6 mg/l	72 h		
	Acute crustacea toxicity	EC50	1,3 mg/l	48 h		
	Fish toxicity	NOEC	2,6 mg/l	4 d	Pimephales promelas (fathead minnow)	
	Algae toxicity	NOEC	1,6 mg/l	3 d		
	Crustacea toxicity	NOEC	0,81 mg/l	2 d		
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol					
	Acute fish toxicity	LC50	379 mg/l	96 h		
	Acute algae toxicity	ErC50	>97,2 mg/l	72 h		
	Acute crustacea toxicity	EC50	>143 mg/l	48 h		
	Algae toxicity	NOEC	>97,2 mg/l			
	Crustacea toxicity	NOEC	45,2 mg/l	21 d		
3077-12-1	N,N-Bis(2-hydroxyethyl)-p-toluidin					
	Acute fish toxicity	LC50	735 mg/l	96 h		
	Acute crustacea toxicity	EC50	94,4 mg/l	48 h		
130-15-4	1,4-naphthoquinone					
	Algae toxicity	NOEC	0,011 mg/l			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
2082-81-7	tetramethylene dimethacrylate				
	OECD 310	84%	28		
27813-02-1	Methacrylic acid, monoester with propane-1,2-diol				
	OECD 310	81%	28		

12.3. Bioaccumulative potential

The product has not been tested.



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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
2082-81-7	tetramethylene dimethacrylate	3,1
25013-15-4	Vinyltoluene	3,58
3077-12-1	N,N-Bis(2-hydroxyethyl)-p-toluidin	1,09
38668-48-3	1,1'-(p-Tolylimino)dipropan-2-ol	2,1
130-15-4	1,4-naphthoquinone	1,8

BCF

CAS No	Chemical name	BCF	Species	Source
25013-15-4	Vinyltoluene	<500		

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of used product

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)



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14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 48,16 g/l

Additional information

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par route



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(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimates

BCF: Bioconcentration

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

ErC50: EC50 in terms of reduction of growth rate

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

IATA: International Air Transport Association

IMDG: International Maritime Code for Dangerous Goods

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

PBT: persistent, bioaccumulative and toxic

vPvB: very persistent and very bioaccumulative

PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)

VOC: Volatile organic compound

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)