



Safety Data Sheet 1907/2006/EC - REACH (GB)

QSP Industrial W Komp. B

Date printed 22.05.2018, Revision 22.05.2018

Version 02. Supersedes version: 01

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

1.1 Product identifier

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

1.2.1 Relevant uses

Amine components
Coating agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

VIP Coatings Europe GmbH
Frauenstrasse 31
82216 Maisach / GERMANY
Phone +49 (0)8141 35549 0
Fax +49(0)8141 35549 99
Homepage www.vip-coatings.de
E-mail info@vip-coatings.de

Address enquiries to

Technical information

info@vip-coatings.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

+49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Corr. 1C: H314 Causes severe skin burns and eye damage.
Eye Dam. 1: H318 Causes serious eye damage.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Acute 1: H400 Very toxic to aquatic life.
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

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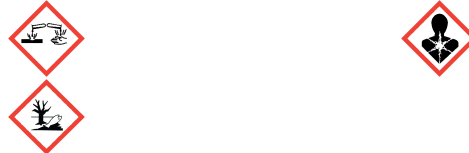
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2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-
 Diethylmethylbenzendiamine

Hazard statements

H314 Causes severe skin burns and eye damage.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe vapours / spray.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
 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.
 P273 Avoid release to the environment.
 P391 Collect spillage.

2.3 Other hazards

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
60 - 70	Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)- CAS: 9046-10-0 GHS/CLP: Skin Corr. 1C: H314 - Eye Dam. 1: H318 - Aquatic Chronic 2: H411
20 - 30	Diethylmethylbenzendiamine CAS: 68479-98-1, EINECS/ELINCS: 270-877-4, EU-INDEX: 612-130-00-0, Reg-No.: 01-2119486805-25-XXXX GHS/CLP: Acute Tox. 4: H302 H312 - STOT RE 2: H373 - Eye Irrit. 2: H319 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
 For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. Get medical advice. Immediately inhale corticosteroid metered-dose inhaler.
Skin contact	Immediate medical treatment necessary, as untreated burns can result in slow-healing wounds. In case of contact with skin wash off immediately with water.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor immediately.
Ingestion	Consult a doctor immediately. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.
Redness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Keep under medical supervision for at least 24 hours.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).
Tetrahydrofuran

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.
Remove persons to safety.

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6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Avoid spilling in enclosed areas.
Place the container in an upright position and protect it against falling over.
Open and handle container with care.

Take precautionary measures against static discharges.
Keep away from all sources of ignition - Refrain from smoking.

Remove soiled or soaked clothing immediately.
Take off contaminated clothing and wash before reuse.
Do not eat, drink, smoke or take drugs at work.
Showers and eye wash stations should be provided.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.

Do not store together with oxidizing agents.
Do not store together with acids.

Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from heat/overheating and from sun.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

DNEL

Substance
Diethylmethylbenzendiamine, CAS: 68479-98-1
Industrial, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 0,13 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,1 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 1 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 0,1 mg/m ³ .

PNEC

Substance
Diethylmethylbenzendiamine, CAS: 68479-98-1
oral (food), 2 mg/kg.
soil, 5,6 µg/kg.
sediment (seawater), 0,0029 mg/kg.
sediment (freshwater), 0,029 mg/kg.
seawater, 0,00005 mg/l.
freshwater, 0,0005 mg/l.
sewage treatment plants (STP), 17 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. >= 0,5 mm, Chloroprene, >480 min (EN 374-1/-2/-3). >= 0,4 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). >= 0,7 mm, >480 min, PVC (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	various
Odor	amine-like
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	No information available.
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	0,98 - 1,02 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	500-900 mPas (25°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with acids.
Reactions with oxidizing agents.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.
In the event of fire: See SECTION 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, oral, > 2000 mg/kg.
ATE-mix, dermal, > 2000 mg/kg.
Substance
Diethylmethylbenzendiamine, CAS: 68479-98-1
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 738 mg/kg (OECD 401).
LC50, inhalativ (mist), Rat: > 2,45 mg/l/1h (ECHA).
NOAEL, oral, Rat: >= 8 mg/kg/90d.
NOAEL, dermal, Rabbit: >= 10 mg/kg/21d.
LOAEL, oral, Rat: >= 21 mg/kg/90d.
NOEL, oral, Rat: 50 ppm/28d.
NOEL, dermal, Rabbit: 1,0 mg/kg/21d.
Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-, CAS: 9046-10-0
LD50, dermal, Rabbit: 2980 mg/kg.
LD50, oral, Rat: 2885 mg/kg.
LC0, inhalative, Rat: > 0,74 mg/l/8h (IRT).

Serious eye damage/irritation	Risk of serious damage to eyes. Calculation method
Skin corrosion/irritation	Product is caustic. Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	CAS 68479-98-1: May cause damage to organs through prolonged or repeated exposure (pancreas). Product: May cause damage to organs through prolonged or repeated exposure. Calculation method
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.
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.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Diethylmethylbenzendiamine, CAS: 68479-98-1
LC50, (96h), Pimephales promelas: > 106 mg/l (OECD 203).
EC50, (24h), Pseudomonas putida: > 170 mg/l (DIN 38412-8).
EC50, (48h), Daphnia magna: 5,8 mg/l (OECD 202).
ErC50, (72h), Desmodemus subspicatus: ca. 104 mg/l (OECD 201).
Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-, CAS: 9046-10-0
LC50, (96h), fish: 772,14 mg/l (OECD 203).
LC50, (96h), Oncorhynchus mykiss: > 15 mg/l (OECD 203).
EC50, (72h), Skeletonema costatum: 141,72 mg/l (ISO/DIS 10253).
EC50, (72h), Pseudokirchneriella subcapitata: 15 mg/l (OECD 201).
EC50, (48h), Daphnia sp.: 418,34 mg/l.
EC50, (48h), Daphnia magna: 80 mg/l (OECD 202).
NOEC, (72h), Skeletonema costatum: 100 mg/l (ISO/DIS 10253).
NOEC, (72h), Pseudokirchneriella subcapitata: 0,32 mg/l (OECD 201).
EC20, (3h), Activated sludge: 380 mg/l (OECD 209).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	CAS 9046-10-0: The product is not readily biodegradable. CAS 68479-98-1: The product is not readily biodegradable.

12.3 Bioaccumulative potential

CAS 68479-98-1: logPow=1,16 (20°C)
CAS 9046-10-0: Accumulation in organisms is not expected.

12.4 Mobility in soil

CAS 9046-10-0: Binding to the solid soil phase is not to be expected.
Henry Constant: 0.000266 (20°C)(QSAR estimate)(CAS 68479-98-1)

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

The product is insoluble in water.
Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
For recycling, consult manufacturer.

Waste no. (recommended)

160305*
160508*
070104*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 2735

Inland navigation (ADN) 2735

Marine transport in accordance with IMDG 2735

Air transport in accordance with IATA 2735

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14.2 UN proper shipping name

Transport by land according to ADR/RID Amines, liquid, corrosive, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-)

- Classification Code

C7

- Label



- ADR LQ

5 l

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

Amines, liquid, corrosive, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-)

- Classification Code

C7

- Label



Marine transport in accordance with IMDG

Amines, liquid, corrosive, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)- ; Diethylmethylbenzenediamine)

- EMS

F-A, S-B

- Label



- IMDG LQ

5 l

Air transport in accordance with IATA

Amines, liquid, corrosive, n.o.s. (Poly[oxy(methyl-1,2-ethanediyl)], α -(2-aminomethylethyl)- ω -(2-aminomethylethoxy)-)

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 8

Inland navigation (ADN) 8

Marine transport in accordance with IMDG 8

Air transport in accordance with IATA 8

14.4 Packing group

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III

14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

- H410 Very toxic to aquatic life with long lasting effects.
- H400 Very toxic to aquatic life.
- H319 Causes serious eye irritation.
- H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
- H302+H312 Harmful if swallowed or in contact with skin.
- H411 Toxic to aquatic life with long lasting effects.
- H318 Causes serious eye damage.
- H314 Causes severe skin burns and eye damage.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Skin Corr. 1C: H314 Causes severe skin burns and eye damage. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

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Modified position

SECTION 2 been added: P391 Collect spillage.
SECTION 2 deleted: Skin Corr. 1B
SECTION 2 been added: Skin Corr. 1C
SECTION 2 deleted: exclamation mark
SECTION 2 deleted: H302 Harmful if swallowed.
SECTION 2 deleted: Acute Tox. 4
SECTION 2 deleted: P501 Dispose of contents/container in accordance with local/national regulation.
SECTION 2 been added: P273 Avoid release to the environment.
SECTION 4 been added: Rinse out mouth and give plenty of water to drink.
SECTION 4 been added: Immediately inhale corticosteroid metered-dose inhaler.
SECTION 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.
SECTION 5 been added: Tetrahydrofuran
SECTION 7 been added: Place the container in an upright position and protect it against falling over.
SECTION 7 been added: Open and handle container with care.
SECTION 7 been added: Keep away from all sources of ignition - Refrain from smoking.
SECTION 7 been added: Do not store together with acids.
SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
SECTION 9 deleted: not determined
SECTION 9 been added: No information available.
SECTION 10 been added: Stable under recommended storage conditions.
SECTION 10 been added: Reactions with acids.
SECTION 11 been added: May cause damage to organs through prolonged or repeated exposure (pancreas).
SECTION 11 been added: Product is caustic.
SECTION 11 been added: May cause damage to organs through prolonged or repeated exposure.
SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.
SECTION 11 deleted: not determined
SECTION 11 been added: Risk of serious damage to eyes.
SECTION 11 been added: Calculation method
SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.
SECTION 12 deleted: not determined
SECTION 12 been added: No information available.
SECTION 12 been added: Accumulation in organisms is not expected.
SECTION 12 been added: Henry Constant: [x]
SECTION 12 been added: Binding to the solid soil phase is not to be expected.
SECTION 12 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.

