

SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

QuickSpray Supreme HE Komp. B

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

Voelkel Industrie Produkte GmbH
Frauenstrasse 31
82216 Maisach / GERMANY
Phone +49 (0) 8141 35 549 0
Fax +49 (0) 8141 35 549 99
Homepage www.vip-gmbh.com
E-mail info@vip-gmbh.com

Address enquiries to

Technical information

info@vip-gmbh.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Advisory body

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Acute Tox. 4: H302 Harmful if swallowed.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Eye Dam. 1: H318 Causes serious eye damage.

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC

Xn, Harmful - R 22: Harmful if swallowed.
C, Corrosive - R 34: Causes burns.
Xn, Harmful - R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Data Sheet 1907/2006/EC - REACH (GB)
QuickSpray Supreme HE Komp. B

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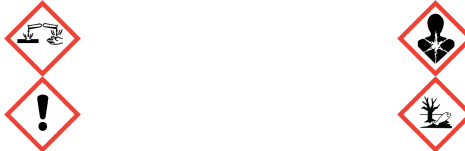
Page 2 / 12

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Polyoxypropylenediamine
 Diethylmethylbenzendiamine
 Glyceryl-poly(oxypropylene)triamine

Hazard statements

H314 Causes severe skin burns and eye damage.
 H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
 H302 Harmful if swallowed.
 H411 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/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.

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	Polyoxypropylenediamine
	CAS: 9046-10-0
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Aquatic Chronic 3: H412 EEC: C, R 22-34-52/53
10-20	Diethylmethylbenzendiamine
	CAS: 68479-98-1, EINECS/ELINCS: 270-877-4, EU-INDEX: 612-130-00-0, ECB-Nr.: 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 EEC: Xn-N, R 21/22-36-48/22-50/53
10-20	Glyceryl-poly(oxypropylene)triamine
	CAS: 64852-22-8, EINECS/ELINCS: Polymer
	GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315 - Aquatic Chronic 3: H412 EEC: Xi, R 38-41-52/53

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 and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
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 soap and water.
Eye contact	In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.
Ingestion	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Product is caustic.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Unknown risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Nitrogen oxides (NOx).
Ammonia (NH3).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.
Use breathing apparatus if exposed to vapours.
Remove persons to safety.

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 with the regulations.



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

QuickSpray Supreme HE Komp. B

Date printed 03.07.2014, Revision 03.07.2014

Version 02. Supersedes version: 01

Page 4 / 12

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 or spraying in enclosed areas.
Vacuuming in situ required.
The product is combustible.
Do not eat, drink, smoke or take drugs at work.
Remove soiled or soaked clothing immediately.
Showers and eye wash stations should be provided.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
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.
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.
Storage class 10 (VCI)

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored (GB)

8.1 Control parameters

not applicable

DNEL

Range [%]	Substance
10-20	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

Range [%]	Substance
10-20	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. Using suitable discharges or exhaust ventilation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. Butyl rubber, >480 min (EN 374). Nitrile rubber, >480 min (EN 374).
Skin protection	Impermeable protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.
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	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not determined
Flammability [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	0,99-1,03 (20 °C / 68,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	300-700 mPa*s (25°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

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).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Nitrous oxides (NO_x).
Oxide of carbon (CO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
60-70	Polyoxypropylenediamine, CAS: 9046-10-0
	LD50, oral, Rat: 475 mg/kg.
	LD50, dermal, Rabbit: 2090 mg/kg.
	NOAEL, dermal, 40 mg/kg/d (subchronic).
	NOAEL, dermal, 1000 mg/kg/d (subacute).
	NOAEL, inhalative, 790 ppm (subacute).
10-20	Diethylmethylbenzendiamine, CAS: 68479-98-1
	LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
	LD50, oral, Rat: 738 mg/kg (OECD 401).
	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.
10-20	Glyceryl-poly(oxypropylene)triamine, CAS: 64852-22-8
	LD50, dermal, Rabbit: 12500 mg/kg (Lit.).
	LD50, oral, Rat: 2690 mg/kg (Lit.).

Serious eye damage/irritation Product is caustic.

Skin corrosion/irritation Product is caustic.

Respiratory or skin sensitisation not determined

Specific target organ toxicity — single exposure not determined

Specific target organ toxicity — repeated exposure not determined

Mutagenicity not determined

Reproduction toxicity not determined

Carcinogenicity not determined

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. The product was classified on the basis of the calculation procedure of the preparation directive.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
60-70	Polyoxypropylenediamine, CAS: 9046-10-0
	LC50, (96h), fish: > 100 mg/l.
	EC50, (48h), Daphnia magna: 15 mg/l.
	IC50, (72h), Algae: 135 mg/l.
10-20	Diethylmethylbenzandiamine, 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).
10-20	Glyceryl-poly(oxypropylene)triamine, CAS: 64852-22-8
	LC50, (96h), fish: 68 mg/l (Lit.).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	< 60%, 28d (CAS 9046-10-0) < 5%, 28d (CAS 64852-22-8) < 1%, 28d (CAS 68479-98-1)

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

The product is insoluble in water.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

The product was classified on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment or into the drainage.

Safety Data Sheet 1907/2006/EC - REACH (GB)
QuickSpray Supreme HE Komp. B

Date printed 03.07.2014, Revision 03.07.2014

Version 02. Supersedes version: 01

Page 9 / 12

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) 070204*
 070208*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, Diethylmethylbenzenediamine) (ENVIRONMENTALLY HAZARDOUS) 8 III

- Classification Code

C7

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, Diethylmethylbenzenediamine) (ENVIRONMENTALLY HAZARDOUS) 8 III

- Classification Code

C7

- Label



Marine transport in accordance with IMDG

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine, Diethylmethylbenzenediamine) 8 III MARINE POLLUTANT

- EMS

F-A, S-B

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA

UN 2735 Amines, liquid, corrosive, n.o.s. (Polyoxypropylendiamine) 8 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

Safety Data Sheet 1907/2006/EC - REACH (GB)
QuickSpray Supreme HE Komp. B

Date printed 03.07.2014, Revision 03.07.2014

Version 02. Supersedes version: 01

Page 10 / 12

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name



14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 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	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (1999/13/CE)	not determined

15.2 Chemical safety assessment

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

SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 22: Harmful if swallowed.
R 34: Causes burns.
R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 38: Irritating to skin.
R 41: Risk of serious damage to eyes.
R 21/22: Harmful in contact with skin and if swallowed.
R 36: Irritating to eyes.
R 48/22: Harmful - danger of serious damage to health by prolonged exposure if swallowed.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Hazard statements (SECTION 3)

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.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.

QuickSpray Supreme HE Komp. B**16.3 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
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
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

16.4 Other information**Customs Tariff**

not determined

Classification procedure

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Modified position

SECTION 7 been added: Do not eat, drink, smoke or take drugs at work.
SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
SECTION 11 been added: 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 been added: Based on all available information not to be classified as PBT or vPvB respectively.
SECTION 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 12 deleted: The product is insoluble in water.
SECTION 12 been added: The product is insoluble in water.
SECTION 16 been added: Observe employment restrictions for young people.
SECTION 16 been added: Calculation method



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

QuickSpray Supreme HE Komp. B

Date printed 03.07.2014, Revision 03.07.2014

Version 02. Supersedes version: 01

Page 12 / 12



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