



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

Date printed 08.08.2018, Revision 08.08.2018

Version 01

Page 1 / 15

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

1.1 Product identifier

QuickSpray Supreme AL Komp. A

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

1.2.1 Relevant uses

Hardener
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]

Acute Tox. 4: H332 Harmful if inhaled.
Skin Sens. 1: H317 May cause an allergic skin reaction.
STOT SE 3: H335 May cause respiratory irritation.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

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

Date printed 08.08.2018, Revision 08.08.2018

Version 01

Page 2 / 15

2.2 Label elements

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

Hazard pictograms



Signal word

WARNING

Contains:

Hexane, 1,6-diisocyanato-, homopolymer
2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol
Oligomers of HDI, uretdione
Polyisocyanate (aliphatic)
Hexamethylene-diisocyanate

Hazard statements

H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves.
P312 Call a POISON CENTER / doctor if you feel unwell.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Special labelling

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Human health dangers

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Environmental hazards

Does not contain any PBT or vPvB substances.

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
40 - < 60	Hexane, 1,6-diisocyanato-, homopolymer
	EINECS/ELINCS: 931-297-3, Reg-No.: 01-2119488934-20-XXXX
	GHS/CLP: Acute Tox. 4: H332 - STOT SE 3: H335 - Skin Sens. 1: H317
30 - < 40	2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol
	CAS: 164250-92-4, EINECS/ELINCS: 642-404-5
	GHS/CLP: Acute Tox. 4: H332 - Skin Sens. 1B: H317 - STOT SE 3: H335 - Aquatic Chronic 2: H411
10 - < 20	Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol
	CAS: 29891-05-2
	GHS/CLP: Acute Tox. 4: H332 - Skin Sens. 1B: H317 - STOT SE 3: H335 - Aquatic Chronic 2: H411
5 - < 10	Oligomers of HDI, uretdione
	CAS: 28182-81-2, EINECS/ELINCS: 931-288-4, Reg-No.: 01-2119488177-26-XXXX
	GHS/CLP: Acute Tox. 3: H331 - STOT SE 3: H335 - Skin Sens. 1: H317
0,1 - < 1	Polyisocyanate (aliphatic)
	CAS: 1809331-98-3, EINECS/ELINCS: 811-625-0
	GHS/CLP: Acute Tox. 4: H332 - Skin Sens. 1B: H317 - STOT SE 3: H335 - Aquatic Chronic 2: H411
0,1 - < 0,3	Hexamethylene-diisocyanate
	CAS: 822-06-0, EINECS/ELINCS: 212-485-8, EU-INDEX: 615-011-00-1, Reg-No.: 01-2119457571-37-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Acute Tox. 1: H330 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Skin Sens. 1: H317

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.

Skin contact

In case of contact with skin wash off immediately with soap and water.
 Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting.
 Get medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
 Allergic reactions

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

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).
Isocyanate
Possible in traces:
Hydrogen cyanide (HCN).

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
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.
Wear suitable protective equipment. For personal protection see SECTION 8.
Remove persons to safety.
Keep away from all sources of ignition.

6.2 Environmental precautions

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

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).
Dispose of absorbed material in accordance with 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.
Avoid contact with eyes and skin. Use personal protective equipment.
The product is combustible.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
Wash hands before breaks and after work.
Use barrier skin cream.



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

Date printed 08.08.2018, Revision 08.08.2018

Version 01

Page 5 / 15

7.2 Conditions for safe storage, including any incompatibilities

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

Do not store with amines

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.
Keep away from water or from damp surroundings.

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)

Substance
Oligomers of HDI, uretdione
CAS: 28182-81-2, EINECS/ELINCS: 931-288-4, Reg-No.: 01-2119488177-26-XXXX
Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m ³
Hexane, 1,6-diisocyanato-, homopolymer
EINECS/ELINCS: 931-297-3, Reg-No.: 01-2119488934-20-XXXX
Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m ³
Hexamethylene-diisocyanate
CAS: 822-06-0, EINECS/ELINCS: 212-485-8, EU-INDEX: 615-011-00-1, Reg-No.: 01-2119457571-37-XXXX
Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m ³

DNEL

Substance
Oligomers of HDI, uretdione, CAS: 28182-81-2
Industrial, inhalative, Long-term - local effects: 0,35 mg/m ³ .
Industrial, inhalative, Acute - local effects: 0,7 mg/m ³ .
Hexamethylene-diisocyanate, CAS: 822-06-0
Industrial, inhalative, Long-term - local effects: 0,035 mg/m ³ .
Industrial, inhalative, Acute - local effects: 0,07 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 0,035 mg/m ³ .
Hexane, 1,6-diisocyanato-, homopolymer
Industrial, inhalative, Long-term - local effects: 0,5 mg/m ³ .
Industrial, inhalative, Acute - local effects: 1 mg/m ³ .

PNEC

Substance
Oligomers of HDI, uretdione, CAS: 28182-81-2
sediment (seaater), 9,45 mg/kg.
freshwater, 0,05 mg/L.
sediment (freshwater), 94,5 mg/kg.
soil, 18,9 mg/kg.
sewage treatment plants (STP), 55,6 mg/l.
seawater, 0,005 mg/L.
Hexamethylene-diisocyanate, CAS: 822-06-0
freshwater, 0,0774 mg/l.
soil, 0,03 mg/kg.
sediment (seaater), 0,001 mg/L.
sediment (freshwater), 0,013 mg/L.
sewage treatment plants (STP), 8,42 mg/l.
seawater, 0,008 mg/L.

QuickSpray Supreme AL Komp. A

Hexane, 1,6-diisocyanato-, homopolymer
freshwater, 0,1 mg/L.
seawater, 0,01 mg/L.
sediment (freshwater), 2530 mg/kg.
sewage treatment plants (STP), 100 mg/l.
sediment (seaater), 253 mg/kg.
soil, 505 mg/kg.

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	safety glasses (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. >= 0,5 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). >= 0,4 mm, Viton, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing.
Other	Do not inhale vapours. 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, combination filter A-P2. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	Viscous liquid
Color	transparent yellowish
Odor	faintly musty
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]	1,11-1,15 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	850 - 1250 mPa*s (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

Development of pressure and risk of bursting in closed containers.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reaction at:
Reactions with alcohols.
Reactions with amines.
Reactions with water, with formation of carbon dioxide.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.



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

Date printed 08.08.2018, Revision 08.08.2018

Version 01

Page 9 / 15

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, inhalativ (mist), ca. 1,3 mg/l/4h.
Substance
Oligomers of HDI, uretdione, CAS: 28182-81-2
LD50, oral, Rat: > 5.665 mg/kg (Lit.).
LC50, inhalative, Rat: 158 mg/m ³ , 4 h OECD 403 (Lit.).
NOAEL, inhalative, Rat: 0,41 mg/l Air OECD 412 (Lit.).
Hexamethylene-diisocyanate, CAS: 822-06-0
LD50, oral, Rat: 746 mg/kg bw.
LD50, dermal, Rat: > 7000 mg/kg bw.
LC50, inhalative, Rat: 0,124 mg/l 4h.
NOAEL, inhalative, Rat: < 0,055 mg/l.
Hexane, 1,6-diisocyanato-, homopolymer
LD50, dermal, Rabbit: > 2000 mg/kg.
LD50, oral, Rat: > 2000 mg/kg (OECD 423).
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
LC50, inhalative, Rat (female): 0,390 mg/l/4h (OECD 403).
Conversion value, inhalativ (mist), 1,5 mg/l/4h.
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol, CAS: 29891-05-2
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
LC50, inhalativ (mist), Rat: 0,351 mg/l/4h.
Conversion value, inhalativ (mist), 1,5 mg/l.
Polyisocyanate (aliphatic), CAS: 1809331-98-3
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rat: > 2000 mg/kg.
LC50, inhalativ (mist), Rat: 0,351 mg/l/4h.
Conversion value, inhalativ (mist), 1,5 mg/l.
2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol, CAS: 164250-92-4
LD50, oral, Rat: > 5000 mg/kg.
LD50, dermal, Rat: > 2000 mg/kg.
LC50, inhalativ (mist), Rat: 0,351 mg/l/4h.
Conversion value, inhalativ (mist), 1,5 mg/l.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	May cause an allergic skin reaction. Calculation method
Specific target organ toxicity — single exposure	May cause respiratory irritation. Calculation method
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.

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

Date printed 08.08.2018, Revision 08.08.2018

Version 01 Page 11 / 15

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	<p>The following applies to isocyanates in general: strong irritations after contact with eyes and skin. Mucosal irritations, coughing, and dyspnoea after inhalation. Inhalation may lead to the formation of oedemas in the respiratory tract. In given circumstances cardiotoxic.</p> <p>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.</p>

SECTION 12: Ecological information

12.1 Toxicity

Substance
Oligomers of HDI, uretdione, CAS: 28182-81-2
EC50, (48h), Daphnia magna: > 100 mg/l (Lit.).
EC50, (72h), Scenedesmus subspicatus: > 50 - 100 mg/l (Lit.).
LC0, (96h), Danio rerio: > 100 mg/l (Lit.).
Hexamethylene-diisocyanate, CAS: 822-06-0
EC50, (72h), Desmodesmus subspicatus: > 77,4 mg/l (IUCLID).
LC0, (96h), Brachidanio rerio: > 82,8 mg/l (IUCLID).
Hexane, 1,6-diisocyanato-, homopolymer
EC50, (3h), Bacteria: > 10 000 mg/L.
EL0, (48h), Daphnia magna: >= 100 mg/L.
LL50, (96h), Danio rerio: > 100 mg/L.
Erl50, (72h), Desmodesmus subspicatus: 199 mg/L.
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol, CAS: 29891-05-2
LC50, (96h), Danio rerio: 8,9 mg/l (OECD 203).
EC50, (48h), Daphnia magna: > 100 mg/l (OECD 202).
EC50, (3h), Bacteria: 1600 mg/l (OECD 209).
Polyisocyanate (aliphatic), CAS: 1809331-98-3
LC50, (96h), Danio rerio: 8,9 mg/l (OECD 203).
EC50, (48h), Daphnia magna: > 100 mg/l (OECD 202).
EC50, (3h), Bacteria: 1600 mg/l (OECD 209).
2-Oxepanone, polymer with 1,6-diisocyanatohexane and 1,6-hexanediol, CAS: 164250-92-4
LC50, (96h), Danio rerio: 8,9 mg/l (OECD 203).
EC50, (3h), Bacteria: 1600 mg/l (OECD 209).
EC50, (48h), Daphnia magna: > 100 mg/l (OECD 202).

12.2 Persistence and degradability

	EG 931-297-3: BCF=706,2 EG 931-297-3: Henry-Konstante: 1.25*E-09 Pa*m ³ /mol (25°C)
Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	EG 931-297-3: 2%, 28d (67/548/EWG, An. V, C.4.E.), The product is not readily biodegradable. CAS 164250-92-4 / CAS 29891-05-2 / CAS 1809331-98-3: 1%, 28d (OECD 302 C), The product is not readily biodegradable. CAS 28182-81-2: 1%, 21d (67/548/EWG, An. V, C.4.E.), The product is not readily biodegradable.

12.3 Bioaccumulative potential

EG 931-297-3: logPow:=ca. 8,38
CAS 28182-81-2: BCF=788

12.4 Mobility in soil

EG 931-297-3 / CAS 28182-81-2: not applicable

12.5 Results of PBT and vPvB assessment

EG 931-297-3 / CAS 28182-81-2: not applicable

12.6 Other adverse effects

The product is insoluble in water.

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by watersoluble solvents. Previous experience shows that polyurea is inert and non-degradable.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment or into the drainage.

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.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

080501*

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 3082

Inland navigation (ADN) 3082

Marine transport in accordance with IMDG 3082

Air transport in accordance with IATA 3082

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

Date printed 08.08.2018, Revision 08.08.2018

Version 01 Page 13 / 15

14.2 UN proper shipping name

Transport by land according to ADR/RID Environmentally hazardous substance, liquid, n.o.s. (Aliphatic polyisocyanates)

- Classification Code

M6

- Label



- ADR LQ

5 l

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

Environmentally hazardous substance, liquid, n.o.s. (Aliphatic polyisocyanates)

- Classification Code

M6

- Label



Marine transport in accordance with IMDG

Environmentally hazardous substance, liquid, n.o.s. (Aliphatic polyisocyanates)

- EMS

F-A, S-F

- Label



- IMDG LQ

0,5 l

Air transport in accordance with IATA

Environmentally hazardous substance, liquid, n.o.s. (Aliphatic polyisocyanates)

- Label



14.3 Transport hazard class(es)

Transport by land according to ADR/RID 9

Inland navigation (ADN) 9

Marine transport in accordance with IMDG 9

Air transport in accordance with IATA 9

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

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

Date printed 08.08.2018, Revision 08.08.2018

Version 01 Page 14 / 15

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. SEVESO III (Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008: E2 ENVIRONMENTAL HAZARDS
- VOC (2010/75/CE)	not applicable

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out:
 EG 931-297-3 / CAS 28182-81-2

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H319 Causes serious eye irritation.
 H315 Causes skin irritation.
 H330 Fatal if inhaled.
 H302 Harmful if swallowed.
 H331 Toxic if inhaled.
 H411 Toxic to aquatic life with long lasting effects.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H332 Harmful if inhaled.

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

Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



Copyright: Chemiebüro®

