

Safety Data Sheet 1907/2006/EC - REACH (GB)
QuickSeal MP 500 Reflect Silver Komp. A

Date printed 17.10.2019, Revision 17.10.2019

Version 01

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

1.1 Product identifier

QuickSeal MP 500 Reflect Silver Komp. A

| | |
|---------------|--|
| IUPAC | Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1-methylenebisocyanatobenzene |
| EINECS/ELINCS | Polymer |
| CAS | 39420-98-9 |

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 Rudolf-Diesel-Str. 11 86551 Aichach / GERMANY Phone +49 (0) 8251 9047 5 0 Fax +49 (0) 8251 9047 5 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]

Carc. 2: H351 Suspected of causing cancer.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Acute Tox. 4: H332 Harmful if inhaled.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Skin Irrit. 2: H315 Causes skin irritation.
STOT SE 3: H335 May cause respiratory irritation.



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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: | Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1-methylenebisocyanatobenzene EINECS: Polymer |
| Hazard statements | H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure through inhalation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H332 Harmful if inhaled. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H315 Causes skin irritation. H335 May cause respiratory irritation. |
| Precautionary statements | P260 Do not breathe mist / vapours / spray. P280 Wear protective gloves / protective clothing / eye protection / face protection. P284 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of water / soap. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Special labelling | EUH204 Contains isocyanates. May produce an allergic reaction. |

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:

3.1 The product is a substance.

| Range [%] | Substance |
|-----------|--|
| 50 - 70 | Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, polymer with 1,1-methylenebisocyanatobenzene CAS: 39420-98-9, EINECS/ELINCS: Polymer GHS/CLP: Skin Sens. 1: H317 - Resp. Sens. 1: H334 |
| 30 - 50 | Methylenediphenyl diisocyanate CAS: 26447-40-5, EINECS/ELINCS: 247-714-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457015-45-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 |
| 15 - 20 | 4,4'-Methylenediphenyl diisocyanate CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - Skin Sens. 1: H317 |
| 15 - 20 | o-(p-isocyanatobenzyl)phenyl isocyanate CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119480143-45-XXXX GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H332 - STOT RE 2: H373 - Eye Irrit. 2: H319 - STOT SE 3: H335 - Skin Irrit. 2: H315 - Resp. Sens. 1: H334 - 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.
Note: CAS number 101-68-8 is an MDI isomer and part of CAS number 26447-40-5.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.
Adhere to personal protective measures when giving first aid.
Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

Inhalation

Ensure supply of fresh air.
Remove the victim into fresh air and keep him calm.
If breathing is irregular or stopped, administer artificial respiration.
Consult a doctor immediately.

Skin contact

In the event of contact with the skin wash immediately with polyethylene glycol, then with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.

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

Consult a doctor immediately.
Do not induce vomiting.

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.
Symptoms of poisoning may not occur for many hours, therefore keep under medical supervision for at least 48 hours.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam.
foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used

Full water jet
Water may be used if no other available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous.

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).
Hydrogen cyanide (HCN).
Isocyanate
Attention! Reaction with water produces CO₂-gas.

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.
Heat causes increase in pressure and risk of bursting - Keep away from the container.
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.
Use breathing apparatus if exposed to vapours/aerosol.
High risk of slipping due to leakage/spillage of product.
Keep people away and stay on the upwind side.
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).
Clean contaminated areas afterwards thoroughly.
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.
Provide suitable vacuuming at the processing area.
Avoid contact with eyes and skin. Use personal protective equipment.
Avoid spilling in enclosed areas.
Open and handle container with care.
Place the container in an upright position and protect it against falling over.
The product is combustible.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.
It is recommended to preview eye-wash bottle and showers.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Keep only in original container.
Do not store with alkalies.
Do not store with amines
Do not store together with acids.
Do not store together with metals.
Keep away from water.
Keep container tightly closed.
Keep container in a well-ventilated place.
Keep in a cool place. Store in a dry place.
Protect from atmospheric moisture and water.
Protect from heat/overheating.
Recommended storage temperature: 15 - 25 °C



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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 |
| Methylenediphenyl diisocyanate |
| CAS: 26447-40-5, EINECS/ELINCS: 247-714-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457015-45-XXXX |
| Long-term exposure: 0,02 mg/m ³ , as NCO, Sen |
| Short-term exposure (15-minute): 0,07 mg/m ³ |
| 4,4'-Methylenediphenyl diisocyanate |
| CAS: 101-68-8, EINECS/ELINCS: 202-966-0, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119457014-47-XXXX |
| Long-term exposure: 0,02 mg/m ³ , as NCO, Sen |
| Short-term exposure (15-minute): 0,07 mg/m ³ |
| o-(p-isocyanatobenzyl)phenyl isocyanate |
| CAS: 5873-54-1, EINECS/ELINCS: 227-534-9, EU-INDEX: 615-005-00-9, Reg-No.: 01-2119480143-45-XXXX |
| Long-term exposure: 0,02 mg/m ³ , as NCO, Sen |
| Short-term exposure (15-minute): 0,07 mg/m ³ |

DNEL

| |
|--|
| Substance |
| o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1 |
| Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ . |
| Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ . |
| Industrial, dermal, Acute - local effects: 28,7 mg/cm ² . |
| Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ . |
| Industrial, dermal, Acute - systemic effects: 50 mg/kg. |
| 4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8 |
| Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ . |
| Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ . |
| Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ . |
| Industrial, dermal, Acute - local effects: 28,7 mg/cm ² . |
| Industrial, dermal, Acute - systemic effects: 50 mg/kg. |

PNEC

| |
|---|
| Substance |
| o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1 |
| sewage treatment plants (STP), > 1 mg/l. |
| soil, > 1 mg/kg. |
| seawater, > 0,1 mg/l. |
| freshwater, > 1 mg/l. |
| 4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8 |
| sewage treatment plants (STP), > 1 mg/l. |
| soil, > 1 mg/kg. |
| seawater, > 0,1 mg/l. |

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freshwater, > 1 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 | > 0,35 mm, Butyl rubber, >480 min (EN 374-1/-2/-3). > 0,35 mm, Neoprene, >480 min (EN 374-1/-2/-3). > 0,35 mm, Viton, >480 min (EN 374-1/-2/-3). PVC > 0,35 mm, >480 min, (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | Impermeable protective and long-sleeved work clothing. |
| Other | Avoid contact with eyes and skin. Do not breathe vapour/spray. 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 | In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387) |
| Thermal hazards | No information available. |
| 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 | liquid |
| Color | yellow |
| Odor | characteristic |
| Odour threshold | 0,4 ppm |
| pH-value | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | No information available. |
| Flash point [°C] | > 100 (closed cup) |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | No information available. |
| Upper explosion limit | No information available. |
| Oxidising properties | none |
| Vapour pressure/gas pressure [kPa] | < 0,00001 mmHg (25°C) |
| Density [g/ml] | 1,10 - 1,14 (20°C) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | insoluble reacts with water |
| Partition coefficient [n-octanol/water] | No information available. |
| Viscosity | 300 - 900 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

No dangerous reactions known if used as directed.
Heat causes increase in pressure and risk of bursting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).
Polymerization may occur at elevated temperature.



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10.3 Possibility of hazardous reactions

Reactions with water, with formation of carbon dioxide.
Reactions with metals.
Exothermic reaction at:
Reactions with alcohols.
Reactions with amines.
Reactions with acids.
Reactions with alkalies (lyes).

10.4 Conditions to avoid

Strong heating.
Sunlight
Sensitive to moisture.
Sensitive to air.

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

| |
|---|
| Substance |
| Methylenediphenyl diisocyanate, CAS: 26447-40-5 |
| LD50, dermal, Rabbit: > 9400 mg/kg (OECD 402). |
| LD50, oral, Rat: > 2000 mg/kg. |
| LC50, inhalative, Rat: > 2,24 mg/l 1h (OECD 403). |
| o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1 |
| inhalative, Conversion value: 1,5 mg/l/4h (Dust/mist). |
| LD50, oral, Rat: > 2000 mg/kg. |
| LD50, dermal, Rabbit: > 9400 mg/kg. |
| LC50, inhalative, Rat: 0,387 mg/l/4h. |
| 4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8 |
| inhalative, Conversion value: 1,5 mg/l/4h (Dust/mist). |
| LD50, dermal, Rabbit: > 9400 mg/kg (OECD 402). |
| LD50, oral, Rat: > 2000 mg/kg. |
| LC50, inhalativ (mist), Rat: 0,49 mg/l/4h. |
| LC50, inhalative, Rat: > 2,24 mg/l/1h (OECD 403). |
| LC50, inhalative, Rat: 0,368 mg/l/4h (OECD 403). |
| Polyoxy(methyl-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, polymer with 1,1-methylenebisisocyanatobenzene, CAS: 39420-98-9 |
| LD50, oral, Rat: > 2000 mg/kg. |
| LD50, dermal, Rabbit: > 2000 mg/kg. |

| | |
|---|--|
| Serious eye damage/irritation | Irritant Calculation method |
| Skin corrosion/irritation | Irritant Calculation method |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Calculation method |
| Specific target organ toxicity — single exposure | May cause respiratory irritation. Calculation method |
| Specific target organ toxicity — repeated exposure | Ingredients: May cause damage to organs through prolonged or repeated exposure through inhalation. 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 | Suspected of causing cancer. Calculation method |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. |
| General remarks | The following applies to cyanogen compounds/ nitriles in general: utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration. Cardiovascular disorders, dyspnoea, unconsciousness. 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 |
| Methylenediphenyl diisocyanate, CAS: 26447-40-5 |
| LC50, (96h), Brachidanio rerio: > 1000 mg/l (OECD 203). |
| EC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201). |
| EC50, (24h), Daphnia magna: > 1000 mg/l (OECD 202). |
| o-(p-isocyanatobenzyl)phenyl isocyanate, CAS: 5873-54-1 |
| LC50, (96h), fish: > 1000 mg/l. |
| EC50, (3h), Bacteria: > 100 mg/l (OECD 209). |
| EC50, (24h), Daphnia magna: > 1000 mg/l. |
| NOEC, (21d), Daphnia magna: > 10 mg/l (OECD 202). |
| ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201). |
| 4,4'-Methylenediphenyl diisocyanate, CAS: 101-68-8 |
| LC50, (96h), Danio rerio: > 1000 mg/l (OECD 203). |
| ErC50, (72h), Scenedesmus subspicatus: > 1640 mg/l (OECD 201). |

12.2 Persistence and degradability

| | |
|--|---|
| Behaviour in environment compartments | No information available. |
| Behaviour in sewage plant | No information available. |
| Biological degradability | CAS 26447-40-5, CAS 101-68-8, CAS 5873-54-1: 0%, 28d - The product is not biodegradable. CAS 39420-98-9: It is expected a slow degradation in the environment. |

12.3 Bioaccumulative potential

CAS 101-68-8: BCF=92, 28d
CAS 26447-40-5: BCF=92, 28d
CAS 5873-54-1: BCF=92, 28d

12.4 Mobility in soil

The product is insoluble in water.

12.5 Results of PBT and vPvB assessment

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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 not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

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

not applicable

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 (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

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.
 The product is classified as non-hazardous in the sense of the 2012/18/EU (Seveso III) Directive.
 Annex XVII of the REACH Regulation, restriction 56.

- VOC (2010/75/CE) not applicable

15.2 Chemical safety assessment

The substance evaluations for all substances in this product are either complete or not applicable.

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.

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

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16.3 Other information

Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Modified position

none



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