

Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE ABLESTIK 59C known as ECCOBOND 59 C 400 G

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

1.1. Product identifier

LOCTITE ABLESTIK 59C known as ECCOBOND 59 C 400 G

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use: Silicone sealant

1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| Classification (CLP): | |
|---|------------|
| Flammable liquids | Category 2 |
| H225 Highly flammable liquid and vapor. | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Toxic to reproduction | Category 2 |
| H361d Suspected of damaging the unborn child. | |
| Specific target organ toxicity - repeated exposure | Category 2 |
| H373 May cause damage to organs through prolonged or repeated exposure. | |
| Acute hazards to the aquatic environment | Category 1 |
| H400 Very toxic to aquatic life. | |
| Chronic hazards to the aquatic environment | Category 1 |
| H410 Very toxic to aquatic life with long lasting effects. | |

2.2. Label elements

Label elements (CLP):

| Hazard pictogram: | |
|--|---|
| Contains | Toluene |
| Signal word: | Danger |
| Hazard statement: | H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. |
| Precautionary statement: Prevention | P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.No smoking.P273 Avoid release to the environment.P280 Wear protective gloves/protective clothing. |
| Precautionary statement: Response | P302+P352 IF ON SKIN: Wash with plenty of soap and water. |
| Precautionary statement: Storage | P403+P235 Store in a well-ventilated place. Keep cool. |

2.3. Other hazards

None if used properly. This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Hazardous components CAS-No. | EC Number REACH-Reg No. | content | Classification |
|--|-------------------------------|------------|--|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | 231-131-3 01-2119555669-21 | 50- 100 % | Aquatic Acute 1 H400 Aquatic Chronic 1 H410 M factor (Acute Aquat Tox): 10 M factor (Chron Aquat Tox): 10 |
| Toluene 108-88-3 | 203-625-9 01-2119471310-51 | 10- 20 % | Flam. Liq. 2 H225 Repr. 2 H361d Asp. Tox. 1 H304 STOT RE 2; Inhalation H373 Skin Irrit. 2 H315 STOT SE 3; Inhalation H336 Aquatic Chronic 3 H412 |
| octamethylcyclotetrasiloxane 556-67-2 | 209-136-7 01-2119529238-36 | 0,1- < 1 % | Aquatic Chronic 1 H410 Repr. 2 H361f Flam. Liq. 3 H226 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) M factor (Chron Aquat Tox): 10 |
| Decamethylcyclopentasiloxane 541-02-6 | 208-764-9 01-2119511367-43 | 0,1-< 1 % | EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) |
| Dodecamethylcyclohexasiloxane 540-97-6 | 208-762-8 01-2119517435-42 | 0,1-< 1 % | Aquatic Chronic 4 H413 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) |

Declaration of the ingredients according to CLP (EC) No 1272/2008:

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation persists.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed SKIN: Redness, inflammation.

Prolonged or repeated skin contact with silver and its salts may cause a blue-gray discoloration of the skin and mucous membranes that is irreversible (Argyria).

Prolonged or repeated contact may cause eye irritation.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons: High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Keep away from sources of ignition.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Dispose of contaminated material as waste according to Section 13. For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

See advice in section 8 Avoid skin and eye contact.

Hygiene measures:

Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities Ensure good ventilation/extraction. Keep container tightly sealed. Keep away from sources of ignition. Keep refrigerated Refer to Technical Data Sheet

7.3. Specific end use(s) Silicone sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|--------------------------------------|---|-----------------|
| Silver 7440-22-4 [SILVER (METALLIC)] | | 0,1 | Time Weighted Average (TWA): | | EH40 WEL |
| Silver 7440-22-4 [SILVER, METALLIC] | | 0,1 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 50 | 191 | Time Weighted Average (TWA): | | EH40 WEL |
| Toluene 108-88-3 [TOLUENE] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Toluene 108-88-3 [TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for

Ireland

| Ingredient [Regulated substance] | ррт | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|--------------------------------------|---|-----------------|
| Silver 7440-22-4 [SILVER (METALLIC)] | | 0,1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Silver 7440-22-4 [SILVER, METALLIC] | | 0,1 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Toluene 108-88-3 [TOLUENE] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Toluene 108-88-3 [TOLUENE] | 50 | 192 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | Indicative | ECTLV |
| Toluene 108-88-3 [TOLUENE] | 100 | 384 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | e Value | | | | Remarks |
|---|------------------------------------|--------------------|-----------------|-----|-----------------|--------|----------------------|
| | Compartment | periou | mg/l | ppm | mg/kg | others | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | aqua (freshwater) | | 0,00004 mg/l | | | | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | aqua (marine water) | | 0,00086 mg/l | | | | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | sewage treatment plant (STP) | | 0,025 mg/l | | | | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | sediment (freshwater) | | | | 438,13 mg/kg | | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | sediment (marine water) | | | | 438,13 mg/kg | | |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | Air | | | | | | no hazard identified |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | Soil | | | | 1,41 mg/kg | | |
| Toluene 108-88-3 | aqua (freshwater) | | 0,68 mg/l | | | | |
| Toluene 108-88-3 | sediment (freshwater) | | | | 16,39 mg/kg | | |
| Toluene 108-88-3 | sediment (marine water) | | | | 16,39 mg/kg | | |
| Toluene 108-88-3 | Soil | | | | 2,89 mg/kg | | |
| Toluene 108-88-3 | sewage treatment plant (STP) | | 13,61 mg/l | | | | |
| Toluene 108-88-3 | aqua (marine water) | | 0,68 mg/l | | | | |
| Toluene 108-88-3 | aqua (intermittent releases) | | 0,68 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (freshwater) | | 0,0015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (marine water) | | 0,00015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (freshwater) | | | | 3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (marine water) | | | | 0,3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | oral | | | | 41 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | Soil | | | | 0,54 mg/kg | | |
| Decamethylcyclopentasiloxane 541-02-6 | aqua (freshwater) | | 0,0012 mg/l | | | | |
| Decamethylcyclopentasiloxane 541-02-6 | aqua (marine water) | | 0,00012 mg/l | | | | |
| Decamethylcyclopentasiloxane 541-02-6 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Decamethylcyclopentasiloxane 541-02-6 | sediment (freshwater) | | | | 11 mg/kg | | |
| Decamethylcyclopentasiloxane 541-02-6 | Soil | | | | 2,54 mg/kg | | |
| Decamethylcyclopentasiloxane 541-02-6 | oral | | | | 16 mg/kg | | |
| Decamethylcyclopentasiloxane 541-02-6 | sediment (marine water) | | | | 1,1 mg/kg | | |
| Dodecamethylcyclohexasiloxane | sediment | | | | 13,5 mg/kg | | |
| 540-97-6 | (freshwater) | | | | I | | |

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| Dodecamethylcyclohexasiloxane 540-97-6 | oral | | 1 | 66,7 mg/kg | |
|--|----------------------------|--|---|------------|--|
| Dodecamethylcyclohexasiloxane 540-97-6 | sediment (marine water) | | | 1,35 mg/kg | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---------------------|----------------------|--|------------------|------------|----------------------|
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | Workers | inhalation | Long term exposure - systemic effects | | 0,1 mg/m3 | no hazard identified |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | General population | inhalation | Long term exposure - systemic effects | | 0,04 mg/m3 | no hazard identified |
| Silver >= 99,9 % Ag as powder (>100nm<1mm) classified for environment 7440-22-4 | General population | oral | Long term exposure - systemic effects | | 1,2 mg/kg | no hazard identified |
| Toluene 108-88-3 | Workers | Inhalation | Acute/short term exposure - local effects | | 384 mg/m3 | |
| Toluene 108-88-3 | Workers | Inhalation | Acute/short term exposure - systemic effects | | 384 mg/m3 | |
| Toluene 108-88-3 | Workers | Inhalation | Long term exposure - local effects | | 192 mg/m3 | |
| Toluene 108-88-3 | Workers | Inhalation | Long term exposure - systemic effects | | 192 mg/m3 | |
| Toluene 108-88-3 | Workers | dermal | Long term exposure - systemic effects | | 384 mg/kg | |
| Toluene 108-88-3 | General population | Inhalation | Acute/short term exposure - local effects | | 226 mg/m3 | |
| Toluene 108-88-3 | General population | Inhalation | Acute/short term exposure - systemic effects | | 226 mg/m3 | |
| Toluene 108-88-3 | General population | Inhalation | Long term exposure - systemic effects | | 56,5 mg/m3 | |
| Toluene 108-88-3 | General population | dermal | Long term exposure - systemic effects | | 226 mg/kg | |
| Toluene 108-88-3 | General population | oral | Long term exposure - systemic effects | | 8,13 mg/kg | |
| Toluene 108-88-3 | General population | inhalation | Long term exposure - local effects | | 56,5 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - systemic effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - local effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - systemic effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - local effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | oral | Long term exposure - systemic effects | | 3,7 mg/kg | |
| Decamethylcyclopentasiloxane 541-02-6 | Workers | inhalation | Long term exposure - systemic effects | | 97,3 mg/m3 | |
| Decamethylcyclopentasiloxane 541-02-6 | Workers | inhalation | Long term exposure - local effects | | 24,2 mg/m3 | |
| Decamethylcyclopentasiloxane 541-02-6 | General population | oral | Long term exposure - systemic effects | | 5 mg/kg | |
| Decamethylcyclopentasiloxane 541-02-6 | General population | inhalation | Long term exposure - systemic effects | | 17,3 mg/m3 | |
| Decamethylcyclopentasiloxane 541-02-6 | General population | inhalation | Long term exposure - local | | 4,3 mg/m3 | |

| | | | effects | | |
|---|--------------------|------------|---|------------|--|
| Dodecamethylcyclohexasiloxane 540-97-6 | Workers | inhalation | Long term exposure - local effects | 1,22 mg/m3 | |
| Dodecamethylcyclohexasiloxane 540-97-6 | Workers | inhalation | Acute/short term exposure - local effects | 6,1 mg/m3 | |
| Dodecamethylcyclohexasiloxane 540-97-6 | General population | inhalation | Long term exposure - local effects | 0,3 mg/m3 | |
| Dodecamethylcyclohexasiloxane 540-97-6 | General population | inhalation | Acute/short term exposure - local effects | 1,5 mg/m3 | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction.

Respiratory protection: Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection: Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection: Wear suitable protective clothing. Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

| SECTION 9: P | hvsical and | chemical | properties |
|---------------------|-------------|----------|------------|
| | | | |

9.1. Information on basic physical and chemical properties
Appearance solid
paste
silver

Odor Odour threshold paste silver mild No data available / Not applicable

pН

| pH | No data available / Not applicable |
|--|------------------------------------|
| Melting point | No data available / Not applicable |
| Solidification temperature | No data available / Not applicable |
| Initial boiling point | No data available / Not applicable |
| Flash point | 7 °C (44.6 °F) |
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | No data available / Not applicable |
| Density | 2,1 g/cm3 |
| 0 | - |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |
| | |

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

None if used properly.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

None if used properly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Species | Method |
|---------------------------|-------|---------------|---------|---|
| CAS-No. | type | | | |
| Silver >= 99,9 % Ag in | LD50 | > 2.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| powder (>100nm<1mm) | | | | |
| 7440-22-4 | | | | |
| Toluene | LD50 | 5.580 mg/kg | rat | EU Method B.1 (Acute Toxicity (Oral)) |
| 108-88-3 | | | | |
| octamethylcyclotetrasilox | LD50 | > 4.800 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral |
| ane | | | | Toxicity) |
| 556-67-2 | | | | |
| Decamethylcyclopentasilo | LD50 | > 5.000 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral |
| xane | | | | Toxicity) |
| 541-02-6 | | | | |
| Dodecamethylcyclohexasi | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| loxane | | | | |
| 540-97-6 | | | | |

Acute dermal toxicity:

Prolonged or repeated skin contact with silver and its salts may cause a blue-gray discoloration of the skin and mucous membranes that is irreversible (Argyria).

| Hazardous substances | Value | Value | Species | Method |
|-----------------------------------|-------|---------------|---------|--|
| CAS-No. | type | | _ | |
| Silver >= 99,9 % Ag in | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| powder (>100nm<1mm) 7440-22-4 | | | | |
| Toluene | LD50 | > 5.000 mg/kg | rabbit | not specified |
| 108-88-3 | | | | |
| octamethylcyclotetrasilox | LD50 | > 2.375 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute |
| ane | | | | Dermal Toxicity) |
| 556-67-2 | | | | |
| Decamethylcyclopentasilo | LD50 | > 2.000 mg/kg | rabbit | equivalent or similar to OECD Guideline 402 (Acute |
| xane | | | | Dermal Toxicity) |
| 541-02-6 | | | | |
| Dodecamethylcyclohexasi | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |
| loxane | | | | |
| 540-97-6 | | | | |

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|--|---------------|-----------|-----------------|------------------|---------|---|
| Toluene 108-88-3 | LC50 | 28,1 mg/l | vapour | 4 h | rat | equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasilox ane 556-67-2 | LC50 | 36 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Decamethylcyclopentasilo xane 541-02-6 | LC50 | 8,67 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|----------------|------------------|---------|--|
| Toluene 108-88-3 | irritating | 4 h | rabbit | EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion) |
| octamethylcyclotetrasilox ane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Decamethylcyclopentasilo xane 541-02-6 | not irritating | 24 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Dodecamethylcyclohexasi loxane 540-97-6 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|------------------------|------------------|---------|--|
| Toluene 108-88-3 | slightly irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| octamethylcyclotetrasilox ane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Decamethylcyclopentasilo xane 541-02-6 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Dodecamethylcyclohexasi loxane 540-97-6 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances | Result | Test type | Species | Method |
|---------------------------|-----------------|-------------------------|------------|---|
| CAS-No. | | | | |
| Toluene | not sensitising | Guinea pig maximisation | guinea pig | EU Method B.6 (Skin Sensitisation) |
| 108-88-3 | | test | | |
| octamethylcyclotetrasilox | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| ane | - | test | | |
| 556-67-2 | | | | |
| Decamethylcyclopentasilo | not sensitising | Mouse local lymphnode | mouse | equivalent or similar to OECD Guideline |
| xane | | assay (LLNA) | | 429 (Skin Sensitisation: Local Lymph |
| 541-02-6 | | | | Node Assay) |
| Dodecamethylcyclohexasi | not sensitising | Guinea pig maximisation | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| loxane | | test | | |
| 540-97-6 | | | | |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|----------|--|--|---------|---|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | negative | in vitro mammalian cell micronucleus test | with and without | | OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |
| Toluene 108-88-3 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | EU Method B.13/14 (Mutagenicity) |
| Toluene 108-88-3 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Decamethylcyclopentasilo xane 541-02-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Decamethylcyclopentasilo xane 541-02-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Decamethylcyclopentasilo xane 541-02-6 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Dodecamethylcyclohexasi loxane 540-97-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Dodecamethylcyclohexasi loxane 540-97-6 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Toluene 108-88-3 | negative | intraperitoneal | | rat | not specified |
| Toluene 108-88-3 | negative | inhalation: vapour | | mouse | OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | inhalation | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | oral: gavage | | rat | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) |
| Decamethylcyclopentasilo xane 541-02-6 | negative | inhalation | | rat | OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo) |
| Decamethylcyclopentasilo xane 541-02-6 | negative | inhalation: vapour | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| Dodecamethylcyclohexasi loxane 540-97-6 | negative | intraperitoneal | | mouse | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|--|------------------|-----------------------|---|---------|-------------|---|
| Toluene 108-88-3 | not carcinogenic | inhalation: vapour | 103 w 6.5 h/d, 5 d/w | rat | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Decamethylcyclopentasilo xane 541-02-6 | not carcinogenic | inhalation: vapour | 2 y 6 h/d, 5 d/w | rat | male/female | EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity) |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|---|---|-----------------------------|-----------------------|---------|---|
| Toluene 108-88-3 | NOAEL P 7500 mg/m3 NOAEL F1 1875 mg/m3 NOAEL F2 1875 mg/m3 | Two generation study | inhalation: vapour | rat | OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| Toluene 108-88-3 | NOAEL P 2261 mg/m3 NOAEL F1 2261 mg/m3 | fertility | inhalation: vapour | rat | not specified |
| octamethylcyclotetrasilox ane 556-67-2 | NOAEL P 300 ppm NOAEL F1 300 ppm | two- generation study | inhalation | rat | equivalent or similar to OECD Guideline 416 (Two- Generation Reproduction Toxicity Study) |
| Decamethylcyclopentasilo xane 541-02-6 | NOAEL P >= 2,496 mg/l NOAEL F1 >= 2,496 mg/l NOAEL F2 >= 2,496 mg/l | two- generation study | inhalation: vapour | rat | EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |
| Dodecamethylcyclohexasi loxane 540-97-6 | NOAEL P 1.000 mg/kg NOAEL F1 1.000 mg/kg | screening | oral: gavage | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|---|-------------------------|-----------------------|--|---------|---|
| Toluene 108-88-3 | NOAEL 625 mg/kg | oral: gavage | 13 w daily, 5 d/w | rat | EU Method B.26 (Sub- Chronic Oral Toxicity Test: Repeated Dose 90- Day Oral Toxicity Study in Rodents) |
| Toluene 108-88-3 | NOAEL 1131 mg/m3 | inhalation: vapour | 24 m 6.5 h/d, 5 d/w | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Toluene 108-88-3 | NOAEL 2355 mg/m3 | inhalation: vapour | 15 w 6.5 h/d, 5 d/w | rat | EU Method B.29 (Sub- Chronic Inhalation Toxicity Test:90-Day Repeated Inhalation Dose Study Using Rodent Species) |
| octamethylcyclotetrasilox ane 556-67-2 | LOAEL 35 ppm | inhalation | 6 h nose only inhalation 5 days/week for 13 weeks | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| octamethylcyclotetrasilox ane 556-67-2 | NOAEL 960 mg/kg | dermal | 3 w 5 d/w | rabbit | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Decamethylcyclopentasilo xane 541-02-6 | NOAEL >= 1.000 mg/kg | oral: gavage | 13 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Decamethylcyclopentasilo xane 541-02-6 | NOAEL >= 2,42 mg/l | inhalation: vapour | 2 y 6 h/d, 5 d/w | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Decamethylcyclopentasilo xane 541-02-6 | NOAEL >= 1.600 mg/kg | oral: gavage | 28 d 6 h/d, 7 d/w | rat | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| Dodecamethylcyclohexasi loxane 540-97-6 | NOAEL 1.000 mg/kg | oral: gavage | 29 d daily, 7 d/w | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|---------------------------------|--------------------------------|-------------|---------------|---------|
| Toluene 108-88-3 | 0,57 mm2/s | 40 °C | not specified | |

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|--|--|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | LC50 | 0,0012 mg/l | 96 h | Pimephales promelas | other guideline: |
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | EC10 | 0,00019 mg/l | 217 d | Salmo trutta | OECD Guideline 210 (fish early lite stage toxicity test) |
| Toluene 108-88-3 | NOEC | 3,2 mg/l | 28 d | Cyprinodon variegatus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Toluene 108-88-3 | LC50 | 5,5 mg/l | 96 h | Oncorhynchus kisutch | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 0,0044 mg/l | 93 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| octamethylcyclotetrasiloxane 556-67-2 | LC50 | Toxicity > Water solubility | 96 h | Oncorhynchus mykiss | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| Decamethylcyclopentasiloxan e 541-02-6 | LC50 | Toxicity > Water solubility | 96 h | Leuciscus idus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Decamethylcyclopentasiloxan e 541-02-6 | NOEC | Toxicity > Water solubility | 90 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|--------------------|---|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | EC50 | 0,00022 mg/l | 48 h | Daphnia magna | other guideline: |
| Toluene 108-88-3 | EC50 | 3,78 mg/l | 48 h | Ceriodaphnia dubia | other guideline: |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| Decamethylcyclopentasiloxan e 541-02-6 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances | Value | Value | Exposure time | Species | Method |
|--|-------|--------------------------------|---------------|--------------------|--|
| CAS-No. | type | | | | |
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | NOEC | 0,00032 mg/l | 21 d | Daphnia magna | EPA OPPTS 850.1300 (Daphnid Chronic Toxicity Test) |
| Toluene 108-88-3 | NOEC | 0,74 mg/l | 7 d | Ceriodaphnia dubia | other guideline: |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 μg/l | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |
| Decamethylcyclopentasiloxan e 541-02-6 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Dodecamethylcyclohexasiloxa | NOEC | Toxicity > Water | | Daphnia magna | OECD 211 (Daphnia |

| ne | l | solubility | I | I | magna, Reproduction Test) |
|----------|---|------------|---|---|---------------------------|
| 540-97-6 | | soluointy | | | mugnu, reproduction rest) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|---|--|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | EC10 | 0,00016 mg/l | 15 d | other: | other guideline: |
| Toluene 108-88-3 | IC50 | 12 mg/l | 72 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane 556-67-2 | EC10 | 0,022 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| Decamethylcyclopentasiloxan e 541-02-6 | NOEC | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Decamethylcyclopentasiloxan e 541-02-6 | EC50 | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dodecamethylcyclohexasiloxa ne 540-97-6 | NOEC | Toxicity > Water solubility | | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Dodecamethylcyclohexasiloxa ne 540-97-6 | EC50 | Toxicity > Water solubility | | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|----------------------------|--|
| Toluene 108-88-3 | NOEC | 29 mg/l | 16 h | Pseudomonas putida | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| Decamethylcyclopentasiloxan e 541-02-6 | EC50 | > 2.000 mg/l | 3 h | activated sludge, domestic | EU Method C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|----------------------------|-----------|---------------|------------------|--|
| Toluene 108-88-3 | readily biodegradable | aerobic | 80 % | 20 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| octamethylcyclotetrasiloxane 556-67-2 | not readily biodegradable. | aerobic | 3,7 % | 29 d | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |
| Decamethylcyclopentasiloxan e 541-02-6 | not readily biodegradable. | aerobic | 0,14 % | 28 d | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |
| Dodecamethylcyclohexasiloxa ne 540-97-6 | not readily biodegradable. | aerobic | 4,47 % | 28 d | OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|--|-----------------------------------|---------------|-------------|-----------------------------|---|
| Silver >= 99,9 % Ag in powder (>100nm<1mm) 7440-22-4 | 70 | 42 d | 20 °C | Cyprinus carpio | other guideline: |
| Toluene 108-88-3 | 90 | 3 d | | Leuciscus idus melanotus | OECD Guideline 305 (Bioconcentration: Flow-through |
| octamethylcyclotetrasiloxane 556-67-2 | 12.400 | 28 d | | Pimephales promelas | Fish Test) EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |
| Decamethylcyclopentasiloxan e 541-02-6 | 7.060 | 35 d | | Pimephales promelas | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| Dodecamethylcyclohexasiloxa ne 540-97-6 | 1.160 | 49 d | | Pimephales promelas | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---|--------|-------------|--|
| Toluene 108-88-3 | 2,73 | 20 °C | EU Method A.8 (Partition Coefficient) |
| octamethylcyclotetrasiloxane 556-67-2 | 6,488 | 25,1 °C | OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow- Stirring Method) |
| Decamethylcyclopentasiloxan e 541-02-6 | 8,07 | 24,6 °C | other guideline: |
| Dodecamethylcyclohexasiloxa ne 540-97-6 | 8,87 | 23,6 °C | other guideline: |

12.5. Results of PBT and vPvB assessment

| Hazardous substances | PBT / vPvB |
|---|--|
| CAS-No. | |
| Silver >= 99,9 % Ag in powder (>100nm<1mm | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
|) | Bioaccumulative (vPvB) criteria. |
| 7440-22-4 | |
| Toluene | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 108-88-3 | Bioaccumulative (vPvB) criteria. |
| octamethylcyclotetrasiloxane | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 556-67-2 | Bioaccumulative (vPvB) criteria. |
| Decamethylcyclopentasiloxane | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 541-02-6 | Bioaccumulative (vPvB) criteria. |
| Dodecamethylcyclohexasiloxane | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very |
| 540-97-6 | Bioaccumulative (vPvB) criteria. |

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal: Do not empty into drains / surface water / ground water. Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information

14.1. UN number

| 1294 |
|------|
| 1294 |
| 1294 |
| 1294 |
| 1294 |
| |

14.2. UN proper shipping name

| ADR | TOLUENE (solution) |
|------|-----------------------------|
| RID | TOLUENE (solution) |
| ADN | TOLUENE (solution) |
| IMDG | TOLUENE (Silver) (solution) |
| IATA | Toluene (solution) |

14.3. Transport hazard class(es)

| ADR | 3 |
|------|---|
| RID | 3 |
| ADN | 3 |
| IMDG | 3 |
| IATA | 3 |

14.4. Packing group

| ADR | II |
|------|----|
| RID | II |
| ADN | II |
| IMDG | II |
| IATA | II |

14.5. Environmental hazards

| ADR | Environmentally Hazardous |
|------|---------------------------|
| RID | Environmentally Hazardous |
| ADN | Environmentally Hazardous |
| IMDG | Marine pollutant |
| IATA | not applicable |

14.6. Special precautions for user

| ADR | not applicable | |
|------|-------------------|--|
| | Tunnelcode: (D/E) | |
| RID | not applicable | |
| ADN | not applicable | |
| IMDG | not applicable | |
| IATA | not applicable | |
| | | |

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 | | | |
|--|--------|----------------|--|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | | Not applicable | |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | | Not applicable | |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | | Not applicable | |
| VOC content (2010/75/EC) | < 20 % | | |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Further information:

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