

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 SDS Ref. (EU): SH915-SDS

Issue date: 17/12/2015 Revision date: 13/08/2020 Supersedes version of: 26/07/2019 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Trade name : STRONGHOLD 915 50 SECOND TPO ADHESIVE (SEMI-RIGID PLASTIC REPAIR

BLACK)

UFI : 5JY0-H0DT-W001-JCQP
Product code : SH9151, SH9152
Product group : Adhesives, sealants

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Adhesives, sealants Function or use category : bonding agent

1.2.2. Uses advised against

Restrictions on use : Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Manufacturer Importer

U-POL Limited U-POL Netherlands B.V. Denington Road Hoorgoorddreef 15

NN8 2QH Wellingborough - United Kingdom 1101BA Amsterdam - Netherlands

T +44 (0) 1933 230310 T +31 20 240 2216

<u>technicalsupport@u-pol.com</u> - <u>www.u-pol.com</u> - <u>www.u-pol.com</u> - <u>www.u-pol.com</u> - <u>www.u-pol.com</u>

1.4. Emergency telephone number

Emergency number : CHEMTREC: +44 (0) 870 8200418 (24 hrs)

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|---|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| United Kingdom | NHS England, Scotland & Wales | - | Call 111 or a Doctor | In Northern Ireland, contact your local GP or pharmacist during normal hours (www.gpoutofhours.h scni.net) |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Germ cell mutagenicity, Category 2 H341

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| Reproductive toxicity, Category 1B | H360 |
|---|------|
| Specific target organ toxicity — Single exposure, Category 2 | H371 |
| Specific target organ toxicity — Repeated exposure, Category 2 | H373 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 3 | H412 |

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing genetic defects. May damage fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Contains : formaldehyde, polymer with benzeneamine, hydrogenated; 4,4'-

methylenebis(cyclohexylamine), liquid; dibutyltin dilaurate

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H341 - Suspected of causing genetic defects. H360 - May damage fertility or the unborn child.

H371 - May cause damage to organs.

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

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P261 - Avoid breathing vapours, fume.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P308+P313 - IF exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

| Component | | |
|--|--|--|
| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |
| dibutyltin dilaurate (77-58-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|--|-----------|---|
| formaldehyde, polymer with benzeneamine, hydrogenated | (CAS-No.) 135108-88-2 (EC-No.) 603-894-6 | 0.3 – 2.5 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 3, H412 |
| 4,4'-methylenebis(cyclohexylamine), liquid | (CAS-No.) 1761-71-3 (EC-No.) 217-168-8 (REACH-no) 01-2119541673-38 | 0.3 – 2.5 | Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 Aquatic Chronic 2, H411 (M=0) |
| dibutyltin dilaurate | (CAS-No.) 77-58-7 (EC-No.) 201-039-8 (EC Index-No.) 050-030-00-3 (REACH-no) 01-2119496068-27 | 1 – 2.5 | Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| diethylmethylbenzenediamine (Note C) | (CAS-No.) 68479-98-1 (EC-No.) 270-877-4 (EC Index-No.) 612-130-00-0 (REACH-no) 01-2119486805-25 | 0.25 – 1 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a

physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or

cracking.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not

breathe vapours, fume.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe vapours, fume. Avoid contact with skin and eyes.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the

workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

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Storage temperature : < 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| dibutyltin dilaurate (77-58-7) | |
|---|-----------|
| United Kingdom - Occupational Exposure Limits | |
| WEL TWA (OEL TWA) [1] | 0.1 mg/m³ |
| WEL STEL (OEL STEL) | 0.2 mg/m³ |

Exposure limit values for the other components

| carbon black (1333-86-4) | | |
|---|---------------------------------------|--|
| Ireland - Occupational Exposure Limits | | |
| Local name | Carbon black | |
| OEL TWA [1] | 3 mg/m³ I (Inhalable Fraction) | |
| OEL STEL | 7 mg/m³ | |
| Regulatory reference | Chemical Agents Code of Practice 2020 | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Carbon black | |
| WEL TWA (OEL TWA) [1] | 3.5 mg/m³ | |
| WEL STEL (OEL STEL) | 7 mg/m³ | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| ethyl acetate (141-78-6) | | |
|--|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| Local name | Ethyl acetate | |
| IOEL TWA | 734 mg/m³ | |
| IOEL TWA [ppm] | 200 ppm | |
| IOEL STEL | 1468 mg/m³ | |
| IOEL STEL [ppm] | 400 ppm | |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2017/164 | |
| Ireland - Occupational Exposure Limits | | |
| Local name | Ethyl acetate | |
| OEL TWA [1] | 734 mg/m³ | |
| OEL TWA [2] | 200 ppm | |
| OEL STEL | 1468 mg/m³ | |
| OEL STEL [ppm] | 400 ppm | |
| Notes (IE) | IOELV (Indicative Occupational Exposure Limit Values) | |

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| ethyl acetate (141-78-6) | | |
|--|---|--|
| Regulatory reference | Chemical Agents Code of Practice 2020 | |
| United Kingdom - Occupational Exposure Lir | United Kingdom - Occupational Exposure Limits | |
| Local name | Ethyl acetate | |
| WEL TWA (OEL TWA) [1] | 734 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 200 ppm | |
| WEL STEL (OEL STEL) | 1468 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 400 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

| formaldehyde, polymer with benzeneamine, hydrogenated (135108-88-2) | |
|---|------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, dermal | 6 mg/kg bodyweight/day |
| Acute - systemic effects, inhalation | 2 mg/m³ |
| Long-term - systemic effects, dermal | 2 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 0.2 mg/m³ |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 0.015 mg/l |
| PNEC aqua (marine water) | 0.0015 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.15 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 15 mg/kg dwt |
| PNEC sediment (marine water) | 1.5 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 1.8 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1.9 mg/l |

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|---|---------------------------|
| DNEL/DMEL (Workers) | |
| Long-term - systemic effects, dermal 0.1 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 1 mg/m³ |
| DNEL/DMEL (General population) | |
| Long-term - systemic effects,oral 0.06 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation 0.21 mg/m³ | |
| Long-term - systemic effects, dermal | 0.06 mg/kg bodyweight/day |

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| PNEC (Water) | |
|--------------------------------------|----------------|
| PNEC aqua (freshwater) | 0.08 mg/l |
| PNEC aqua (marine water) | 0.008 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.08 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 137 mg/kg dwt |
| PNEC sediment (marine water) | 13.7 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 27.2 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 3.2 mg/l |

| dibutyltin dilaurate (77-58-7) | | |
|--|----------------------------|--|
| DNEL/DMEL (Workers) | | |
| Acute - systemic effects, dermal | 2.08 mg/kg bodyweight/day | |
| Long-term - systemic effects, dermal | 0.42 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 0.02 mg/m³ | |
| DNEL/DMEL (General population) | | |
| Acute - systemic effects, dermal | 1 mg/kg bodyweight/day | |
| Acute - systemic effects, inhalation | 0.04 mg/m³ | |
| Acute - systemic effects, oral | 0.02 mg/kg bodyweight/day | |
| Long-term - systemic effects,oral | 0.004 mg/kg bodyweight/day | |
| Long-term - systemic effects, inhalation | 0.006 mg/m³ | |
| Long-term - systemic effects, dermal | 0.16 mg/kg bodyweight/day | |
| PNEC (Water) | | |
| PNEC aqua (freshwater) | 0.000463 mg/l | |
| PNEC aqua (marine water) | 0.0000463 mg/l | |
| PNEC aqua (intermittent, freshwater) | 0.00463 mg/l | |
| PNEC (Sediment) | | |
| PNEC sediment (freshwater) | 0.05 | |
| PNEC sediment (marine water) | 0.005 | |
| PNEC (Soil) | | |
| PNEC soil | 0.0407 | |
| PNEC (Oral) | | |
| PNEC oral (secondary poisoning) | 0.2 mg/kg food | |
| PNEC (STP) | | |
| PNEC sewage treatment plant | 100 mg/l | |

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Other skin protection

Materials for protective clothing:

Impermeable clothing

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Black. Appearance : Liquid. Odour : aromatic. Odour threshold : Not available : Not available Melting point : Not available Freezing point Boiling point : Not available Flammability : Not applicable

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Explosive limits : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : > 100 °C Auto-ignition temperature : Not available : Not available Decomposition temperature : Not available рΗ Viscosity, kinematic : Not available

Solubility : Reacts with water. soluble in most organic solvents.

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available Density : 1.1 g/cm³ Relative density : Not available Relative vapour density at 20 °C : Not available Particle size : Not applicable Particle size distribution : Not applicable Particle shape : Not applicable Particle aspect ratio : Not applicable : Not applicable Particle aggregation state : Not applicable Particle agglomeration state Particle specific surface area : Not applicable Particle dustiness : Not applicable

9.2. Other information

VOC content : 201 g/l

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 201 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| carbon black (1333-86-4) | |
|--------------------------|---|
| LD50 oral rat | > 8000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LC50 Inhalation - Rat | > 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust)) |

| dipropylene glycol (25265-71-8) | |
|---------------------------------|---|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPP 81-1 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 5010 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity) |
| LC50 Inhalation - Rat | > 2.34 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity) |

| bis(2-ethylhexyl) terephthalate (6422-86-2) | |
|---|---|
| | > 5000 mg/kg bodyweight Animal: rat, Guideline: other:TSCA FHSA Regulations (1979): 16 CFR Part 1500.40 (Hazardous Substances and Articles, Administration and Enforcement Regulations) |

| formaldehyde, polymer with benzeneamine, hydrogenated (135108-88-2) | |
|---|--|
| LD50 oral rat | > 1000 mg/kg |
| LD50 dermal rabbit | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: other:40CFR Part 158 Series 81-2, EPA Pesticide Assessment Guidelines. F 1984 |

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|--|---|
| LD50 oral rat | 380 mg/kg (EPA OPP 81-1: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rabbit | 2110 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 81-2 (Acute Dermal Toxicity) |

| propylene carbonate (108-32-7) | |
|--------------------------------|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |

| zeolite, cuboidal, crystalline, synthetic, non-fibrous | |
|--|--------------|
| LD50 oral rat | > 5110 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|--|
| LD50 oral rat | 2071 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1207 - 5106 |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |

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| ethyl acetate (141-78-6) | |
|--------------------------|---|
| LD50 oral rat | 10200 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral) |
| LD50 oral | 4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | > 20000 mg/kg bodyweight Animal: rabbit, Animal sex: male |

| silicon dioxide, amorphous (7631-86-9) | |
|--|-------------------------------|
| LD50 oral rat | > 10000 mg/kg (Rat, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Dermal) |

Skin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Causes serious eye damage.Respiratory or skin sensitisation: May cause an allergic skin reaction.Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity : Not classified

Reproductive toxicity : May damage fertility or the unborn child.

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|--|
| NOAEL (animal/male, F0/P) | 1.9 – 2.3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| NOAEL (animal/female, F0/P) | 1.7 – 2.4 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |

STOT-single exposure : May cause damage to organs.

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|-----------------------------------|
| STOT-single exposure | Causes damage to organs (thymus). |

| ethyl acetate (141-78-6) | |
|--------------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

formaldehyde, polymer with benzeneamine, hydrogenated (135108-88-2) STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|--|--|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

| diethylmethylbenzenediamine (68479-98-1) | |
|--|--|
| LOAEL (dermal, rat/rabbit, 90 days) | ≥ 10 mg/kg bodyweight Animal: rabbit |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

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| propylene carbonate (108-32-7) | |
|---------------------------------------|--|
| · · · · · · · · · · · · · · · · · · · | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|--|
| STOT-repeated exposure | Causes damage to organs (thymus) through prolonged or repeated exposure. |

| ethyl acetate (141-78-6) | |
|----------------------------|--|
| LOAEL (oral, rat, 90 days) | 3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |
| NOAEL (oral, rat, 90 days) | 900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test) |

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : Not classified

(acuta)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

| formaldehyde, polymer with benzeneamine, hydrogenated (135108-88-2) | |
|---|---|
| LC50 - Fish [1] | 63 mg/l Test organisms (species): Poecilia reticulata |
| EC50 - Crustacea [1] | 6.84 mg/l (Daphnia magna) |
| EC50 72h - Algae [1] | 43.94 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|--|--|
| LC50 - Fish [1] | > 100 mg/l Test organisms (species): Leuciscus idus |
| LC50 - Fish [2] | 68 mg/l Test organisms (species): Leuciscus idus |
| EC50 - Crustacea [1] | 7.07 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | 6.84 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 140 – 200 mg/l Test organisms (species): |
| EC50 72h - Algae [2] | 141.42 – 200 mg/l Test organisms (species): |
| ErC50 algae | 140 – 200 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| NOEC (chronic) | 4 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic fish | > 1 mg/l Test organisms (species): other:freshwater fish |

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| diethylmethylbenzenediamine (68479-98-1) | |
|--|--|
| EC50 - Crustacea [1] | 0.5 mg/l Test organisms (species): Daphnia magna |

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|---|
| LC50 - Fish [1] | 3.1 mg/l |
| EC50 - Crustacea [1] | 1.7 – 3.4 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | < 463 μg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| ErC50 algae | 1 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Tin) |

12.2. Persistence and degradability

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | | |
|--|-------------------------------|-------------------------------------|
| | Persistence and degradability | Not readily biodegradable in water. |

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|--|---|
| BCF - Fish [1] | < 60 (OECD 305: Bioconcentration: Flow-Through Fish Test, 60 day(s), Cyprinus carpio, Flow-through system, Fresh water, Read-across, GLP) |
| Partition coefficient n-octanol/water (Log Pow) | 2.03 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

| dibutyltin dilaurate (77-58-7) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 4.44 (Practical experience/observation, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.8 °C) |
| Bioaccumulative potential | Potential for bioaccumulation (4 ≥ Log Kow ≤ 5). |

12.4. Mobility in soil

| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | |
|--|---|
| Partition coefficient n-octanol/water (Log Koc) | 3.25 (log Koc, Other, Calculated value) |
| Ecology - soil | Low potential for mobility in soil. |

| dibutyltin dilaurate (77-58-7) | |
|--------------------------------|---|
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Results of PBT and vPvB assessment

| Component | |
|--|--|
| 4,4'-methylenebis(cyclohexylamine), liquid (1761-71-3) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

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| dibutyltin dilaurate (77-58-7) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |
|--------------------------------|--|
| | This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

IMDG

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated

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14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | |
|--|--|---|
| Reference code | Applicable on | Entry title or description |
| 3(b) | STRONGHOLD 915 50 SECOND TPO ADHESIVE (SEMI-RIGID PLASTIC REPAIR BLACK); diethylmethylbenzenediamine; formaldehyde, polymer with benzeneamine, hydrogenated; 4,4'- methylenebis(cyclohexylamine), liquid; dibutyltin dilaurate | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |
| 3(c) | STRONGHOLD 915 50 SECOND TPO ADHESIVE (SEMI-RIGID PLASTIC REPAIR BLACK); diethylmethylbenzenediamine; formaldehyde, polymer with benzeneamine, hydrogenated; 4,4'- methylenebis(cyclohexylamine), liquid; dibutyltin dilaurate | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 30. | dibutyltin dilaurate | Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively. |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Substances subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals: Dibutyltin compounds (77-58-7)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 201 g/l

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Full text of H- and EUH-statements: | Full text of H- and EUH-statements: | |
|-------------------------------------|---|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | |
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 | |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 | |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 | |
| Muta. 2 | Germ cell mutagenicity, Category 2 | |
| Repr. 1B | Reproductive toxicity, Category 1B | |
| Repr. 1B | Reproductive toxicity, Category 1B | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B | |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C | |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 | |
| Skin Sens. 1 | Skin sensitisation, Category 1 | |
| Skin Sens. 1B | Skin sensitisation, category 1B | |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 | |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 | |
| STOT SE 1 | Specific target organ toxicity — single exposure, Category 1 | |
| STOT SE 2 | Specific target organ toxicity — Single exposure, Category 2 | |
| H302 | Harmful if swallowed. | |
| H312 | Harmful in contact with skin. | |
| H314 | Causes severe skin burns and eye damage. | |
| H315 | Causes skin irritation. | |
| H317 | May cause an allergic skin reaction. | |
| H318 | Causes serious eye damage. | |
| H319 | Causes serious eye irritation. | |
| H341 | Suspected of causing genetic defects. | |
| H360 | May damage fertility or the unborn child. | |
| H360FD | May damage fertility. May damage the unborn child. | |
| H370 | Causes damage to organs. | |
| H371 | May cause damage to organs. | |

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| H372 | Causes damage to organs through prolonged or repeated exposure. |
|------|--|
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

For professional use only.

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