

Soudal Superglue Activator

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

1.1 Product identifier:

Product name : Soudal Superglue Activator
 Registration number REACH : Not applicable (mixture)
 Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Adhesive: activator

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

Soudal N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 +32 14 42 65 14
 msds@soudal.com

Manufacturer of the product

Soudal N.V.
 Everdongenlaan 18-20
 B-2300 Turnhout
 ☎ +32 14 42 42 31
 +32 14 42 65 14
 msds@soudal.com

1.4 Emergency telephone number:

24h/24h (Telephone advice: English, French, German, Dutch):
 +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
|-----------------|------------|---|
| Aerosol | category 1 | H222: Extremely flammable aerosol. |
| Aerosol | category 1 | H229: Pressurised container: May burst if heated. |
| Skin Irrit. | category 2 | H315: Causes skin irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |
| Aquatic Acute | category 1 | H400: Very toxic to aquatic life. |
| Aquatic Chronic | category 1 | H410: Very toxic to aquatic life with long lasting effects. |

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

F+; R12 - Extremely flammable.

Xi; R38 - Irritating to skin.

R67 - Vapours may cause drowsiness and dizziness.

N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

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



Contains: heptane.

Soudal Superglue Activator

Signal word

Danger

H-statements

- H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H410 Very toxic to aquatic life with long lasting effects.

P-statements

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P280 Wear protective gloves, protective clothing and eye protection/face protection.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels



Extremely flammable



Irritant



Dangerous for the environment

R-phrases

- 38 Irritating to skin
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 67 Vapours may cause drowsiness and dizziness

S-phrases

- 02 Keep out of the reach of children
 16 Keep away from sources of ignition - No smoking
 23 Do not breathe spray
 (46) (If swallowed, seek medical advice immediately and show this container or label)
 51 Use only in well-ventilated areas
 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

- Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
 Do not pierce or burn, even after use.
 Do not spray on a naked flame or any incandescent material.

2.3 Other hazards:

CLP

- May be ignited by sparks
 Gas/vapour spreads at floor level: ignition hazard
 Aerosol may explode under the effect of heat
 Slightly irritant to respiratory organs
 Slightly irritant to eyes

DSD/DPD

- May be ignited by sparks
 Gas/vapour spreads at floor level: ignition hazard
 Aerosol may explode under the effect of heat
 Slightly irritant to respiratory organs
 Slightly irritant to eyes

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

| Name REACH Registration No | CAS No EC No | Conc. (C) | Classification according to DSD/DPD | Classification according to CLP | Note | Remark |
|-------------------------------|-----------------|-----------|--|------------------------------------|------|--------|
| | | | | | | |

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| | | | | | | |
|-----------------------------|-----------------------|-----------|--|---|------------|-------------|
| heptane 01-2119457603-38 | 142-82-5 205-563-8 | C>25 % | F; R11 Xn; R65 Xi; R38 R67 N; R50-53 | Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | (1)(2)(10) | Constituent |
| N,N-dimethyl-p-toluidine | 99-97-8 202-805-4 | C<5 % | T; R23/24/25 R33 R52-53 | Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2; H373 Aquatic Chronic 3; H412 | (1)(10) | Constituent |
| propane 01-2119486944-21 | 74-98-6 200-827-9 | 5%<C<20 % | F+; R12 | Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant |
| butane 01-2119474691-32 | 106-97-8 203-448-7 | C>25 % | F+; R12 | Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280 | (1)(2)(10) | Propellant |

- (1) For R-phrases and H-statements in full: see heading 16
 (2) Substance with a Community workplace exposure limit
 (10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

Respiratory problems: consult a doctor/medical service. Remove the victim into fresh air.

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

Slight irritation. Dry/sore throat. Coughing. EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Headache. Dizziness.

After skin contact:

Red skin. Tingling/irritation of the skin.

After eye contact:

Slight irritation. Redness of the eye tissue.

After ingestion:

Headache. Vomiting. Abdominal pain. Diarrhoea.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Alcohol-resistant foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

Upon combustion: CO and CO₂ are formed.

5.3 Advice for firefighters:

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistent risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Dam up the liquid spill. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4 Reference to other sections:

See heading 13.

SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

7.1 Precautions for safe handling:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Protect against frost. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

| | | |
|-----------|--|------------------------|
| n-Butaan | Time-weighted average exposure limit 8 h (Private occupational exposure limit value) | 592 ppm |
| | Time-weighted average exposure limit 8 h (Private occupational exposure limit value) | 1430 mg/m ³ |
| n-Heptaan | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 288 ppm |
| | Time-weighted average exposure limit 8 h (Public occupational exposure limit value) | 1200 mg/m ³ |
| | Short time value (Public occupational exposure limit value) | 384 ppm |
| | Short time value (Public occupational exposure limit value) | 1600 mg/m ³ |

EU

| | | |
|-----------|---|------------------------|
| n-Heptane | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value) | 2085 mg/m ³ |

Belgium

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|---|--|------------------------|
| Hydrocarbures aliphatiques sous forme gazeuse : (Alcanes C1-C4) | Time-weighted average exposure limit 8 h | 1000 ppm |
| n-Heptane | Time-weighted average exposure limit 8 h | 400 ppm |
| | Time-weighted average exposure limit 8 h | 1664 mg/m ³ |
| | Short time value | 500 ppm |
| | Short time value | 2085 mg/m ³ |

USA (TLV-ACGIH)

| | | |
|----------------------|--|----------|
| Butane, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 1000 ppm |
| Heptane, all isomers | Time-weighted average exposure limit 8 h (TLV - Adopted Value) | 400 ppm |
| | Short time value (TLV - Adopted Value) | 500 ppm |

Germany

| | | |
|------------------------|---|------------------------|
| Butan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 mg/m ³ |
| Heptan (alle Isomeren) | Time-weighted average exposure limit 8 h (TRGS 900) | 500 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2100 mg/m ³ |
| Propan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 1800 mg/m ³ |

France

| | | |
|-----------|--|------------------------|
| n-Butane | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 800 ppm |
| | Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) | 1900 mg/m ³ |
| n-Heptane | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 400 ppm |
| | Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) | 1668 mg/m ³ |
| | Short time value (VRC: Valeur réglementaire contraignante) | 500 ppm |
| | Short time value (VRC: Valeur réglementaire contraignante) | 2085 mg/m ³ |

UK

| | | |
|-----------|---|------------------------|
| Butane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 600 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 1450 mg/m ³ |
| | Short time value (Workplace exposure limit (EH40/2005)) | 750 ppm |
| | Short time value (Workplace exposure limit (EH40/2005)) | 1810 mg/m ³ |
| n-Heptane | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 500 ppm |
| | Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005)) | 2085 mg/m ³ |

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

| | | |
|---|-------|--------|
| N,N-Dimethyl p-Toluidine (Amines, Aromatic) | NIOSH | 2002 |
| n-Heptane (Hydrocarbons, BP 26 to 126 C) | NIOSH | 1500 |
| n-Heptane (Volatile Organic compounds) | NIOSH | 2549 |
| n-Heptane | NIOSH | 95-117 |
| n-Heptane | OSHA | 7 |

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL - Workers

heptane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 2085 mg/m ³ | |
| | Long-term systemic effects dermal | 300 mg/kg bw/day | |

N,N-dimethyl-p-toluidine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1.3523 mg/m ³ | |
| | Long-term systemic effects dermal | 1.1862 mg/kg bw/day | |

DNEL - General population

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heptane

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-----------------------|--------|
| DNEL | Long-term systemic effects inhalation | 447 mg/m ³ | |
| | Long-term systemic effects dermal | 149 mg/kg bw/day | |
| | Long-term systemic effects oral | 149 mg/kg bw/day | |

N,N-dimethyl-p-toluidine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.3364 mg/m ³ | |
| | Long-term systemic effects dermal | 0.2925 mg/kg bw/day | |
| | Long-term systemic effects oral | 2.3725 mg/m ³ | |

PNEC

N,N-dimethyl-p-toluidine

| Compartments | Value | Remark |
|------------------------------|-------------------------------|--------|
| Fresh water | 0.15259 mg/l | |
| Marine water | 0.015259 mg/l | |
| Aqua (intermittent releases) | 0.15259 mg/l | |
| STP | 4.2863 mg/l | |
| Fresh water sediment | 45.37770249 mg/kg sediment dw | |
| Marine water sediment | 45.37770249 mg/kg sediment dw | |
| Soil | 18.67677186 mg/kg soil dw | |

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

8.2.1 Appropriate engineering controls

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Gloves.

| Materials | Breakthrough time | Thickness |
|----------------|-------------------|-----------|
| nitrile rubber | >480 minutes | 0.35 mm |

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

| | |
|---------------------------|------------------------------|
| Physical form | Aerosol |
| Odour | Characteristic odour |
| Odour threshold | No data available |
| Colour | Colourless to light yellow |
| Particle size | No data available |
| Explosion limits | 1.05 - 6.7 vol % |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | 1 mPa.s ; 20 °C |
| Kinematic viscosity | 1 mm ² /s ; 20 °C |
| Melting point | No data available |
| Boiling point | -140 - 99 °C |
| Flash point | Not applicable |
| Evaporation rate | 4.3 ; butyl acetate |
| Relative vapour density | No data available |
| Vapour pressure | 460 hPa ; 20 °C |
| Solubility | water ; insoluble |
| Relative density | 0.8 |
| Decomposition temperature | No data available |

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| | |
|---------------------------|--|
| Auto-ignition temperature | 285 °C |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available |

9.2 Other information:

| | |
|------------------|-----------------------|
| Absolute density | 650 kg/m ³ |
|------------------|-----------------------|

SECTION 10: Stability and reactivity

10.1 Reactivity:

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

10.2 Chemical stability:

Unstable on exposure to heat.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5 Incompatible materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion: CO and CO₂ are formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Soudal Superglue Activator

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|--------|----------------|---------------|---------|---------------------|--------|
| Oral | LD50 | | >5000 mg/kg bw | | Rat | Calculated value | |

heptane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|------------------------|-----------------|---------------|----------------------|---------------------|--------|
| Oral | LD50 | Equivalent to OECD 401 | >5000 mg/kg bw | | Rat (male/female) | Read-across | |
| Dermal | LD50 | Equivalent to OECD 402 | >2000 mg/kg bw | 24 h | Rabbit (male/female) | Read-across | |
| Inhalation (vapours) | LC50 | Equivalent to OECD 403 | >29.29 mg/l air | 4 h | Rat (male/female) | Experimental value | |

N,N-dimethyl-p-toluidine

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|-------------------|-----------|------------------------|----------------|---------------|----------------------|---------------------|--------|
| Oral | LD50 | | 980 mg/kg bw | | Rat | Weight of evidence | |
| Oral | | | category 3 | | | Annex VI | |
| Dermal | LD50 | Equivalent to OECD 402 | >2000 mg/kg bw | | Rabbit (male/female) | Weight of evidence | |
| Dermal | | | category 3 | | | Annex VI | |
| Inhalation | | | category 3 | | | Annex VI | |

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------|---------|---------------------|------------------|
| Eye | Not irritating | Equivalent to OECD 405 | | 24; 48; 72 hours | Rabbit | Read-across | Single treatment |
| Skin | Irritating | Equivalent to OECD 404 | 24 h | 72 hours | Rabbit | Read-across | |

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N,N-dimethyl-p-toluidine

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|----------|---------------|------------|---------|---------------------|--------|
| Eye | Not irritating | | | | Rabbit | QSAR | |
| Skin | Not irritating | OECD 404 | | | Rabbit | QSAR | |

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.
Not classified as irritating to the eyes
Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|--------------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | 24; 48 hours | Guinea pig (male/female) | Read-across | |

N,N-dimethyl-p-toluidine

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|--------|---------------|------------------------|----------------------|---------------------|--------|
| Skin | Not sensitizing | | | | Rabbit (male/female) | QSAR | |

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

Specific target organ toxicity

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------------------|--------------------------|-----------------------------|------------------------|-----------------------------|------------------|------------|---------------------|
| Inhalation (vapours) | NOAEC | Subchronic toxicity test | 12470 mg/m ³ air | Central nervous system | No effect | 16 weeks (daily) | Rat (male) | Experimental value |
| Inhalation (vapours) | NOAEC systemic effects | Subchronic toxicity test | 12470 mg/m ³ air | General | No adverse systemic effects | 16 weeks (daily) | Rat (male) | Experimental value |
| Inhalation | | | STOT SE cat.3 | Central nervous system | Drowsiness, dizziness | | Human | Literature study |

N,N-dimethyl-p-toluidine

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------|---------------------|-------|--------|---------------|-------------------|---------------------|
| Oral | LOEL | | 201.79 mg/kg bw/day | | | | Rat (male/female) | QSAR |
| Dermal | | | STOT RE cat.2 | | | | | Annex VI |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | LOEL | | 67.28 mg/kg bw/day | | | | Rat (male/female) | QSAR |

Classification is based on the relevant ingredients

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| Result | Method | Test substrate | Effect | Value determination |
|----------|------------------------|--------------------------|-----------|---------------------|
| Negative | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |
| Negative | Equivalent to OECD 473 | Rat liver cells | No effect | Experimental value |
| Negative | OECD 476 | Human lymphocytes | No effect | Read-across |

N,N-dimethyl-p-toluidine

| Result | Method | Test substrate | Effect | Value determination |
|----------|--------|----------------------------------|--------|---------------------|
| Negative | | Chinese hamster lung fibroblasts | | Weight of evidence |

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Mutagenicity (in vivo)

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No (test)data on the mixture available

Carcinogenicity

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Organ | Effect |
|-------------------|-----------|--------|-------|---------------|---------|---------------------|-------|--------|
| Inhalation | | | | | | Data waiving | | |
| Dermal | | | | | | Data waiving | | |
| Oral | | | | | | Data waiving | | |

Reproductive toxicity

Soudal Superglue Activator

No (test)data on the mixture available

heptane

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|------------------------|-----------|------------------------|-----------------------------|------------------|-------------------|------------------------------------|--------|---------------------|
| Developmental toxicity | NOAEL | Equivalent to OECD 414 | 10560 mg/m ³ air | 10 days (6h/day) | Mouse | No effect | Foetus | Read-across |
| | NOAEL | Equivalent to OECD 414 | 31680 mg/m ³ air | 10 days (6h/day) | Mouse | Minor skeletal variations | Foetus | Read-across |
| Maternal toxicity | NOAEL | Equivalent to OECD 414 | 3168 mg/m ³ air | 10 days (6h/day) | Mouse | No effect | | Read-across |
| | LOAEL | Equivalent to OECD 414 | 10560 mg/m ³ air | 10 days (6h/day) | Mouse | Lung tissue affection/degeneration | Lungs | Read-across |
| Effects on fertility | NOAEL | Equivalent to OECD 416 | 31680 mg/m ³ air | | Rat (male/female) | No effect | | Read-across |

N,N-dimethyl-p-toluidine

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|------------|--------|--------------------|---------------|-------------------|--------|-------|---------------------|
| Effects on fertility | LOAEL (F2) | | 72097 mg/kg bw/day | | Rat (male/female) | | | QSAR |

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for reprotoxic or developmental toxicity

Not classified for mutagenic or genotoxic toxicity

Not classified for carcinogenicity

Chronic effects from short and long-term exposure

Soudal Superglue Activator

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

Soudal Superglue Activator

No (test)data on the mixture available

Soudal Superglue Activator

heptane

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|--|-----------|----------|------------|-----------|---------------------------------|--------------------|------------------|--------------------------------------|
| Acute toxicity fishes | LL50 | | 5.738 mg/l | 96 h | Oncorhynchus mykiss | | Fresh water | QSAR; Nominal concentration |
| Acute toxicity invertebrates | LC50 | Other | 0.2 mg/l | 96 h | Chaetogammarus marinus | Semi-static system | Salt water | Experimental value; Locomotor effect |
| | LC50 | Other | 0.1 mg/l | 96 h | Americamysis bahia | Semi-static system | Salt water | Experimental value |
| Toxicity algae and other aquatic plants | EL50 | | 4.338 mg/l | 72 h | Pseudokirchneriella subcapitata | | Fresh water | QSAR; Biomass |
| Long-term toxicity fish | NOELR | | 1.284 mg/l | 28 day(s) | Oncorhynchus mykiss | | Fresh water | QSAR; Growth rate |
| Long-term toxicity aquatic invertebrates | NOEC | OECD 211 | 0.17 mg/l | 21 day(s) | Daphnia magna | Static system | Fresh water | Read-across; GLP |
| Toxicity aquatic micro-organisms | EL50 | | 22.6 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR; Nominal concentration |

N,N-dimethyl-p-toluidine

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|--------|------------|-----------|---------------------------------|---------------------|------------------|----------------------------|
| Acute toxicity fishes | LC50 | | 46 mg/l | 96 h | Pimephales promelas | | Fresh water | Experimental value; Lethal |
| Acute toxicity invertebrates | LC50 | ECOSAR | 15.26 mg/l | 48 h | Daphnia magna | | | QSAR |
| Toxicity algae and other aquatic plants | EC50 | | 24.3 mg/l | 72 h | Pseudokirchneriella subcapitata | Flow-through system | Fresh water | QSAR |
| Long-term toxicity fish | LC50 | ECOSAR | 24.89 mg/l | 14 day(s) | | | | QSAR |
| Toxicity aquatic micro-organisms | EC50 | | 42.86 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR |

Classification of the mixture is based on the relevant ingredients and on application of the summation method

Conclusion

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

heptane

Biodegradation water

| Method | Value | Duration | Value determination |
|--------|--------------------------|-----------|---------------------|
| Other | 70 %; Oxygen consumption | 10 day(s) | Experimental value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|---------------|---------|------------------------|---------------------|
| SRC AOP v1.92 | 18.68 h | 1.5E6 /cm ³ | Calculated value |

N,N-dimethyl-p-toluidine

Biodegradation water

| Method | Value | Duration | Value determination |
|--------------------|-------|-----------|---------------------|
| EPA OPPTS 835.3210 | 50 % | 38 day(s) | Calculated value |

Phototransformation air (DT50 air)

| Method | Value | Conc. OH-radicals | Value determination |
|-------------|--------------|--------------------|---------------------|
| EPA N 161-2 | 0.079 day(s) | 0 /cm ³ | |

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Soudal Superglue Activator

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------------------------|-------|-------------|---------------------|
| | Not applicable (mixture) | | | |

heptane

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|--------------|-------|----------|---------|---------------------|
| BCF | BCFBAF v3.00 | 552 | | | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| | | 4.66 | | Experimental value |
| | | 4.5 | | Literature study |

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N,N-dimethyl-p-toluidine

BCF fishes

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|------------------|-------|----------|---------|---------------------|
| BCF | EPA OTS 797.1520 | 33 | | Pisces | Calculated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|------------------------|--------|-------|-------------|---------------------|
| Equivalent to OECD 107 | | 1.729 | 35 °C | Experimental value |

Conclusion

Contains bioaccumulative component(s)

12.4 Mobility in soil:

heptane

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 2.38 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Mackay level III | 79 % | 0 % | 10 % | 3.8 % | 7.8 % | Calculated value |

N,N-dimethyl-p-toluidine

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 2.1 | Calculated value |

Volatility (Henry's Law constant H)

| Value | Method | Temperature | Remark | Value determination |
|------------------------------|--------------------|-------------|--------|---------------------|
| 9.58 atm m ³ /mol | SRC HENRYWIN v3.20 | 25 °C | | QSAR |

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.5 Results of PBT and vPvB assessment:

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects:

Soudal Superglue Activator

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

heptane

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

N,N-dimethyl-p-toluidine

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Specific treatment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste.

Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC).

15 01 10* (packaging containing residues of or contaminated by dangerous substances).

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SECTION 14: Transport information

Road (ADR)

| | | |
|------------------------------------|--|--|
| 14.1 UN number: | UN number | 1950 |
| 14.2 UN proper shipping name: | Proper shipping name | Aerosols |
| 14.3 Transport hazard class(es): | Hazard identification number | |
| | Class | 2 |
| | Classification code | 5F |
| 14.4 Packing group: | Packing group | |
| | Labels | 2.1 |
| 14.5 Environmental hazards: | Environmentally hazardous substance mark | yes |
| 14.6 Special precautions for user: | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Rail (RID)

| | | |
|------------------------------------|--|--|
| 14.1 UN number: | UN number | 1950 |
| 14.2 UN proper shipping name: | Proper shipping name | Aerosols |
| 14.3 Transport hazard class(es): | Hazard identification number | 23 |
| | Class | 2 |
| | Classification code | 5F |
| 14.4 Packing group: | Packing group | |
| | Labels | 2.1 |
| 14.5 Environmental hazards: | Environmentally hazardous substance mark | yes |
| 14.6 Special precautions for user: | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Inland waterways (ADN)

| | | |
|------------------------------------|--|--|
| 14.1 UN number: | UN number | 1950 |
| 14.2 UN proper shipping name: | Proper shipping name | Aerosols |
| 14.3 Transport hazard class(es): | Class | 2 |
| | Classification code | 5F |
| 14.4 Packing group: | Packing group | |
| | Labels | 2.1 |
| 14.5 Environmental hazards: | Environmentally hazardous substance mark | yes |
| 14.6 Special precautions for user: | Special provisions | 190 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 625 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |

Sea (IMDG/IMSBC)

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| | | |
|--|--|--|
| 14.1 UN number: | UN number | 1950 |
| 14.2 UN proper shipping name: | Proper shipping name | Aerosols |
| 14.3 Transport hazard class(es): | Class | 2.1 |
| 14.4 Packing group: | Packing group | |
| | Labels | 2.1 |
| 14.5 Environmental hazards: | Marine pollutant | P |
| | Environmentally hazardous substance mark | yes |
| 14.6 Special precautions for user: | Special provisions | 63 |
| | Special provisions | 190 |
| | Special provisions | 277 |
| | Special provisions | 327 |
| | Special provisions | 344 |
| | Special provisions | 959 |
| | Limited quantities | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: | Annex II of MARPOL 73/78 | Not applicable |

Air (ICAO-TI/IATA-DGR)

| | | |
|------------------------------------|---|---------------------|
| 14.1 UN number: | UN number | 1950 |
| 14.2 UN proper shipping name: | Proper shipping name | Aerosols, flammable |
| 14.3 Transport hazard class(es): | Class | 2.1 |
| 14.4 Packing group: | Packing group | |
| | Labels | 2.1 |
| 14.5 Environmental hazards: | Environmentally hazardous substance mark | yes |
| 14.6 Special precautions for user: | Special provisions | A145 |
| | Special provisions | A167 |
| | Special provisions | A802 |
| | Passenger and cargo transport: limited quantities: maximum net quantity per packaging | 30 kg G |

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
|-------------|--------|
| 100 % | |

VOC content Directive 2004/42/EC

| | | | | |
|-----------|--|--|--|--|
| 609.8 g/l | | | | |
|-----------|--|--|--|--|

REACH Annex XVII - Restriction

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| | Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
|-------------------------------------|--|---|
| heptane N,N-dimethyl-p-toluidine | Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse | 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects.2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304.4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to |

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| | | |
|---------|---|--|
| | effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1. | the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.' |
| heptane | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopee" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |

National legislation The Netherlands

Soudal Superglue Activator

| | |
|--|---|
| Waste identification (the Netherlands) | LWCA (the Netherlands): KGA category 06 |
| Waterbezuwaarlijkheid | 6 |

National legislation Germany

Soudal Superglue Activator

| | |
|-----|---|
| WGK | 2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4) |
|-----|---|

heptane

| | |
|--|----------------------------------|
| Schwangerschaft Gruppe | D |
| MAK 8-Stunden-Mittelwert ppm | n-Heptan; 500 ppm |
| MAK 8-Stunden-Mittelwert mg/m ³ | n-Heptan; 2100 mg/m ³ |
| TA-Luft | 5.2.5; I |

N,N-dimethyl-p-toluidine

| | |
|---------|----------|
| TA-Luft | 5.2.5; I |
|---------|----------|

National legislation France

Soudal Superglue Activator

No data available

National legislation Belgium

Soudal Superglue Activator

No data available

Other relevant data

Soudal Superglue Activator

No data available

15.2 Chemical safety assessment:

No chemical safety assessment is required.

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SECTION 16: Other information

Full text of any R-phrases referred to under headings 2 and 3:

- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed
- R33 Danger of cumulative effects
- R38 Irritating to skin
- R50 Very toxic to aquatic organisms
- R52 Harmful to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed
- R67 Vapours may cause drowsiness and dizziness

Full text of any H-statements referred to under headings 2 and 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- 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.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive

DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits DSD

| | | | |
|--------------------------|---------------|---------------|----------------------|
| N,N-dimethyl-p-toluidine | C ≥ 5 % | T; R23/24/25 | DSD Annex VI (ATP 0) |
| | 1 % ≤ C < 5 % | Xn; R20/21/22 | DSD Annex VI (ATP 0) |

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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