

SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



AL-FIX AKTIVATOR

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

1.1. Product identifier

Product name : AL-FIX AKTIVATOR
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
Sealing compound
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

Novatio*
Industrielaan 5B
B-2250 Olen
☎ +32 14 25 76 40
☎ +32 14 22 02 66
info@novatio.be
*NOVATIO is a registered trademark of Novatech International N.V.

Manufacturer of the product

Novatech International N.V.
Industrielaan 5B
B-2250 Olen
☎ +32 14 85 97 37
☎ +32 14 85 97 38
info@novatech.be

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

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 Chronic | category 2 | H411: Toxic to aquatic life with long lasting effects. |

2.2. Label elements



Contains: naphtha (petroleum), solvent-refined light.

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.
H411 Toxic to aquatic life with long lasting effects.

P-statements

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)
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Reason for revision: 3.2; 8; 12
Revision number: 0700

Publication date: 2000-09-20
Date of revision: 2020-12-03

Product number: 32188

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878-16239-002-en

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| | |
|-------------|--|
| 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. |
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F. |

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

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 CLP | Note | Remark | M-factors and ATE |
|--|-------------------------|-----------|--|----------------|-------------|----------------------|
| naphtha (petroleum), solvent-refined light | 64741-84-0 265-086-6 | 30%≤C≤50% | Flam. Liq. 1; H224 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411 | (1)(6)(10) | Constituent | |
| propane 01-2119486944-21 | 74-98-6 200-827-9 | 10%≤C≤30% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10) | Propellant | |
| butane | 106-97-8 203-448-7 | 10%≤C≤30% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10)(21) | Propellant | |
| isobutane 01-2119485395-27 | 75-28-5 200-857-2 | 1%≤C≤10% | Flam. Gas 1A; H220 Press. Gas - Liquefied gas; | (1)(2)(10)(21) | Propellant | |
| N,N-dimethyl-p-toluidine | 99-97-8 202-805-4 | C<1 % | Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT RE 2; H373 Aquatic Chronic 3; H412 | (1)(10) | Constituent | |

(1) For H- and EUH-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

(21) 1,3-butadiene <0.1%

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

4.2.1 Acute symptoms

After inhalation:

Coughing. Dizziness. Drowsiness.

After skin contact:

Red skin. Tingling/irritation of the skin.

After eye contact:

Redness of the eye tissue.

After ingestion:

Dry/sore throat.

4.2.2 Delayed symptoms

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

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Revision number: 0700

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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:

Small fire: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours. Pressurised container: May burst if heated.

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 (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

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 (EN 374). Protective goggles (EN 166). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid spill.

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. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Store in a cool area. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight.

7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids.

7.2.3 Suitable packaging material:

No data available

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.

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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.

Belgium

| | | |
|--|--|------------------------|
| Butane, tous isomères: iso-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Butane, tous isomères: n-butane | Short time value | 980 ppm |
| | Short time value | 2370 mg/m ³ |
| Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3) | Time-weighted average exposure limit 8 h | 1000 ppm |

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 |

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 |
| Isobutan | Time-weighted average exposure limit 8 h (TRGS 900) | 1000 ppm |
| | Time-weighted average exposure limit 8 h (TRGS 900) | 2400 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 |

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 |

USA (TLV-ACGIH)

| | | |
|-----------------|--|----------|
| Butane, isomers | Short time value (TLV - Adopted Value) | 1000 ppm |
|-----------------|--|----------|

b) National biological limit values

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

USA (BEI-ACGIH)

| | | | |
|--|-------------------------------|---------------------|--|
| Methemoglobin inducers (Methemoglobin) | Blood: during or end of shift | 1,5 % of hemoglobin | Background, Nonspecific, Semi-quantative |
| Methemoglobin inducers (Methemoglobin) | Blood: during or end of shift | 5 % of hemoglobin | Background, Nonspecific - Intended changes |

8.1.2 Sampling methods

| Product name | Test | Number |
|---|-------|--------|
| N,N-Dimethyl p-Toluidine (Amines, Aromatic) | NIOSH | 2002 |
| Oil Mist (Mineral) | NIOSH | 5026 |

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 Threshold values

DNEL/DMEL - Workers

naphtha (petroleum), solvent-refined light

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|---------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1286.4 mg/m ³ | |
| | Long-term local effects inhalation | 837.5 mg/m ³ | |
| | Acute local effects inhalation | 1066.67 mg/m ³ | |

N,N-dimethyl-p-toluidine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1.224 mg/m ³ | |
| | Long-term systemic effects dermal | 0.694 mg/kg bw/day | |

DNEL/DMEL - General population

naphtha (petroleum), solvent-refined light

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|--------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 1152 mg/m ³ | |
| | Long-term local effects inhalation | 178.57 mg/m ³ | |
| | Acute local effects inhalation | 640 mg/m ³ | |

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

Date of revision: 2020-12-03

Revision number: 0700

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N,N-dimethyl-p-toluidine

| Effect level (DNEL/DMEL) | Type | Value | Remark |
|--------------------------|---------------------------------------|-------------------------|--------|
| DNEL | Long-term systemic effects inhalation | 0.302 mg/m ³ | |
| | Long-term systemic effects dermal | 0.347 mg/kg bw/day | |
| | Long-term systemic effects oral | 0.174 mg/kg bw/day | |

PNEC

N,N-dimethyl-p-toluidine

| Compartments | Value | Remark |
|-------------------------------------|--------------------------|--------|
| Fresh water | 0.014 mg/l | |
| Marine water | 0.001 mg/l | |
| Fresh water (intermittent releases) | 0.137 mg/l | |
| STP | 1.36 mg/l | |
| Fresh water sediment | 48.245 mg/kg sediment dw | |
| Marine water sediment | 48.245 mg/kg sediment dw | |
| Soil | 20.365 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. Take precautions against electrostatic charges. 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:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034). Head/neck protection.

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 in the literature |
| Colour | Colourless |
| Particle size | Not applicable (aerosol) |
| Explosion limits | No data available in the literature |
| Flammability | Extremely flammable aerosol. |
| Log Kow | Not applicable (mixture) |
| Dynamic viscosity | Not applicable (aerosol) |
| Kinematic viscosity | Not applicable (aerosol) |
| Melting point | No data available in the literature |
| Boiling point | No data available in the literature |
| Relative vapour density | No data available in the literature |
| Vapour pressure | No data available in the literature |
| Solubility | Water ; insoluble |
| Relative density | Not applicable (aerosol) |
| Absolute density | Not applicable (aerosol) |
| Decomposition temperature | No data available in the literature |
| Auto-ignition temperature | Not applicable (aerosol) |
| Flash point | -40 °C ; Propellant |
| pH | Not applicable (aerosol) |

9.2. Other information

| | |
|----------------------|-------------------------------------|
| Evaporation rate | No data available in the literature |
| Explosive properties | Not classified |
| Oxidising properties | Not classified |

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SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

10.5. Incompatible materials

Oxidizing agents, (strong) acids.

10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO₂ and small quantities of nitrous vapours.

SECTION 11: Toxicological information

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

11.1.1 Test results

Acute toxicity

AL-FIX AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients
naphtha (petroleum), solvent-refined light

| 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 | > 5.61 mg/l | 4 h | Rat (male / female) | Read-across | |

N,N-dimethyl-p-toluidine

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
|----------------------|-----------|----------|-----------------|---------------|------------------------|---------------------|--------|
| Oral | LD50 | OECD 401 | 1650 mg/kg bw | | Rat (male / female) | Experimental value | |
| Oral | | | category 3 | | | Annex VI | |
| Dermal | LD50 | OECD 402 | > 2000 mg/kg bw | | Rabbit (male / female) | Experimental value | |
| Dermal | | | category 3 | | | Annex VI | |
| Inhalation (aerosol) | LC50 | | 1.4 mg/l | 4 h | Rat | Experimental value | |
| Inhalation | | | category 3 | | | Annex VI | |

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

Conclusion

Not classified for acute toxicity

Corrosion/irritation

AL-FIX AKTIVATOR

No (test)data on the mixture available

Classification is based on the relevant ingredients
naphtha (petroleum), solvent-refined light

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|------------------------|---------------|------------------------|---------|---------------------|--------|
| Eye | Not irritating | Equivalent to OECD 405 | | 24; 48; 72 hrs; 4 days | Rabbit | Read-across | |

AL-FIX AKTIVATOR

N,N-dimethyl-p-toluidine

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value determination | Remark |
|-------------------|----------------|----------|---------------|------------------|---------|---------------------|--------|
| Eye | Not irritating | OECD 405 | 1 h | 24; 48; 72 hours | Rabbit | Experimental value | |
| Skin | Not irritating | OECD 404 | 4 h | 24; 48; 72 hours | Rabbit | Experimental value | |

Conclusion

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

Respiratory or skin sensitisation

AL-FIX AKTIVATOR

No (test)data on the mixture available
Judgement is based on the relevant ingredients
naphtha (petroleum), solvent-refined light

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination | Remark |
|-------------------|-----------------|------------------------|---------------|------------------------|-------------------|---------------------|--------|
| Skin | Not sensitizing | Equivalent to OECD 406 | | | Guinea pig (male) | 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 | |

Conclusion

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

Specific target organ toxicity

AL-FIX AKTIVATOR

No (test)data on the mixture available
Classification is based on the relevant ingredients
naphtha (petroleum), solvent-refined light

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|------------|------------------------|------------------|--------|-------------------------------|---|-----------------------|---------------------|
| Oral (stomach tube) | Dose level | Subacute toxicity test | 500 mg/kg bw/day | Kidney | Affection of the renal tissue | 4 weeks (5 days / week) | Rat (male) | Read-across |
| Dermal | NOAEL | Equivalent to OECD 453 | 0.5 ml/kg bw | | No effect | | Mouse (male / female) | Read-across |
| Inhalation (vapours) | NOAEC | Equivalent to OECD 453 | 1.4 mg/l | | No effect | 107 weeks (6h / day, 5 days / week) - 109 weeks (6h / day, 5 days / week) | Rat (male / female) | Read-across |
| Inhalation (vapours) | | | STOT SE cat.3 | | Drowsiness, dizziness | | | Literature study |

N,N-dimethyl-p-toluidine

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
|----------------------|-----------|--------|--------------------|---------------------------|--------------------------|---------------------------|---------------------|---------------------|
| Oral (stomach tube) | LOAEL | | 6 mg/kg bw/day | Female reproductive organ | Impairment/d egeneration | 105 weeks (5 days / week) | Rat (female) | Experimental value |
| Oral (stomach tube) | LOAEL | | 62.5 mg/kg | Various organs | Weight changes | 14 weeks (5 days / week) | Rat (male / female) | Experimental value |
| Dermal | | | STOT RE cat.2 | | | | | Annex VI |
| Dermal | | | | | | | | Data waiving |
| Inhalation (vapours) | LOEL | | 67.28 mg/kg bw/day | | Body weight reduction | | Rat (male / female) | QSAR |

Conclusion

May cause drowsiness or dizziness.
Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available
Judgement is based on the relevant ingredients

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

Date of revision: 2020-12-03

Revision number: 0700

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naphtha (petroleum), solvent-refined light

| Result | Method | Test substrate | Effect | Value determination | Remark |
|---|------------------------|-------------------------------|--------|---------------------|--------|
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 476 | Mouse (lymphoma L5178Y cells) | | Read-across | |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | | Read-across | |

N,N-dimethyl-p-toluidine

| Result | Method | Test substrate | Effect | Value determination | Remark |
|----------|----------|--------------------------|--------|---------------------|--------|
| Negative | OECD 471 | Bacteria (S.typhimurium) | | Experimental value | |

Mutagenicity (in vivo)

AL-FIX AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

naphtha (petroleum), solvent-refined light

| Result | Method | Exposure time | Test substrate | Organ | Value determination |
|---------------------------------|--------------------|-----------------------------------|---------------------|-------|---------------------|
| Negative (Inhalation (vapours)) | EPA OPPTS 870.5395 | 4 weeks (6h / day, 5 days / week) | Rat (male / female) | | Read-across |

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

AL-FIX AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

naphtha (petroleum), solvent-refined light

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|----------------------|------------|------------------------|------------------------|-------------------------------------|---------------------|------------------------|-------|---------------------|
| Inhalation (vapours) | Dose level | Equivalent to OECD 451 | 9869 mg/m ³ | 113 weeks (6h / day, 5 days / week) | Rat (male / female) | No carcinogenic effect | | Read-across |

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

AL-FIX AKTIVATOR

No (test)data on the mixture available

Judgement is based on the relevant ingredients

naphtha (petroleum), solvent-refined light

| | Parameter | Method | Value | Exposure time | Species | Effect | Organ | Value determination |
|---|-----------|------------------------|---------------------------|----------------------------|---------------------|-----------|-------|---------------------|
| Developmental toxicity (Inhalation (vapours)) | NOAEL | Equivalent to OECD 414 | 23900 mg/kg bw/day | 15 days (gestation, daily) | Rat | No effect | | Read-across |
| Maternal toxicity (Inhalation (vapours)) | NOAEL | Equivalent to OECD 414 | 23900 mg/m ³ | 15 days (gestation, daily) | Rat | No effect | | Read-across |
| Effects on fertility (Inhalation (vapours)) | NOAEC | Equivalent to OECD 416 | ≥ 20000 mg/m ³ | | 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) | | 72.98 mg/kg bw/day | | Rat (male / female) | | | QSAR |

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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No (test)data on the mixture available

Chronic effects from short and long-term exposure

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No effects known.

11.2. Information on other hazards

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

Date of revision: 2020-12-03

Revision number: 0700

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No evidence of endocrine disrupting properties

SECTION 12: Ecological information

12.1. Toxicity

AL-FIX AKTIVATOR

No (test) data on the mixture available

Classification is based on the relevant ingredients

naphtha (petroleum), solvent-refined light

| | Parameter | Method | Value | Duration | Species | Test design | Fresh/salt water | Value determination |
|---|-----------|----------|----------|-----------|---------------------------------|--------------------|------------------|---|
| Acute toxicity fishes | LL50 | OECD 203 | 10 mg/l | 96 h | Oncorhynchus mykiss | Semi-static system | Fresh water | Experimental value; Nominal concentration |
| Acute toxicity crustacea | EL50 | OECD 202 | 4.5 mg/l | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | EL50 | OECD 201 | 3.1 mg/l | 96 h | Pseudokirchneriella subcapitata | Static system | Fresh water | Experimental value; Growth rate |
| Long-term toxicity aquatic crustacea | NOELR | OECD 211 | 2.6 mg/l | 21 day(s) | Daphnia magna | Semi-static system | Fresh water | Experimental value |

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 crustacea | 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 |
| Long-term toxicity aquatic crustacea | | | | | | | | Data waiving |
| Toxicity aquatic micro-organisms | EC50 | | 42.86 mg/l | 48 h | Tetrahymena pyriformis | | Fresh water | QSAR |

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

naphtha (petroleum), solvent-refined light

Biodegradation water

| Method | Value | Duration | Value determination |
|-----------|-------|-----------|---------------------|
| OECD 301F | 77 % | 28 day(s) | Experimental value |

N,N-dimethyl-p-toluidine

Biodegradation water

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

Conclusion

Water

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

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Log Kow

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

naphtha (petroleum), solvent-refined light

BCF other aquatic organisms

| Parameter | Method | Value | Duration | Species | Value determination |
|-----------|---------------|-------------------------|----------|---------|---------------------|
| BCF | BCFBFAF v3.01 | 1216 l/kg; Fresh weight | | | Estimated value |

Log Kow

| Method | Remark | Value | Temperature | Value determination |
|--------|--------|-------|-------------|---------------------|
| KOWWIN | | 4.27 | | Estimated value |

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

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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

naphtha (petroleum), solvent-refined light

(log) Koc

| Parameter | Method | Value | Value determination |
|-----------|-------------------|-------|---------------------|
| log Koc | SRC PCKOCWIN v2.0 | 2.640 | Calculated value |

Percent distribution

| Method | Fraction air | Fraction biota | Fraction sediment | Fraction soil | Fraction water | Value determination |
|--------------------------|--------------|----------------|-------------------|---------------|----------------|---------------------|
| Fugacity Model Level III | 31.8 % | | 0.867 % | 1.27 % | 66.1 % | Calculated value |

N,N-dimethyl-p-toluidine

(log) Koc

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

Conclusion

Contains component(s) with potential for mobility in the soil

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. Endocrine disrupting properties

No evidence of endocrine disrupting properties

12.7. Other adverse effects

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Greenhouse gases

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

Ozone-depleting potential (ODP)

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

N,N-dimethyl-p-toluidine

Groundwater

Groundwater pollutant

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

European Union

Not classified as hazardous waste when part A and part B are mixed and are fully cured. Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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 hazardous substances).

14 06 03* (waste organic solvents, refrigerants and foam/aerosol propellants: other solvents and solvent mixtures). Depending on branch of industry and production process, also other waste codes may be applicable.

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. Should not be landfilled with household waste. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

European Union

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

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

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

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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)

| | |
|-----------------|------|
| 14.1. UN number | |
| UN number | 1950 |

AL-FIX AKTIVATOR

| | |
|---|--|
| 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 | 190 |
| Special provisions | 277 |
| Special provisions | 327 |
| Special provisions | 344 |
| Special provisions | 381 |
| Special provisions | 63 |
| 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. Maritime transport in bulk according to IMO instruments | |
| 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 |
|--------------|--------|
| 51 % - 100 % | |

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 |
|--|--|---|
| · naphtha (petroleum), solvent-refined light · N,N-dimethyl-p-toluidine | Liquid 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: (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 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. | 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 H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to 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 H304, intended for supply to the general public are visibly, |

Reason for revision: 3.2; 8; 12

Publication date: 2000-09-20

Date of revision: 2020-12-03

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| | | |
|--|--|--|
| | | <p>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";</p> <p>b) grill lighter fluids, labelled with 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";</p> <p>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> <p>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 H304, intended for supply to the general public.</p> <p>7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'</p> |
| naphtha (petroleum), solvent-refined light | <p>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.</p> | <p>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:</p> <ul style="list-style-type: none"> — 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. <p>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:</p> <p>"For professional users only".</p> <p>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.</p> <p>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.</p> |

National legislation Belgium

AL-FIX AKTIVATOR

No data available

National legislation The Netherlands

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| | |
|----------------------|---|
| Waterbezwaarlijkheid | Z (2); Algemene Beoordelingsmethodiek (ABM) |
|----------------------|---|

National legislation France

AL-FIX AKTIVATOR

No data available

National legislation Germany

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| | |
|-----|--|
| WGK | 3; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 |
|-----|--|

naphtha (petroleum), solvent-refined light

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

N,N-dimethyl-p-toluidine

| | |
|---------|---------|
| TA-Luft | 5.2.5/I |
|---------|---------|

National legislation United Kingdom

AL-FIX AKTIVATOR

No data available

Other relevant data

AL-FIX AKTIVATOR

No data available

N,N-dimethyl-p-toluidine

| | |
|-----------------------|--------------------------|
| IARC - classification | 2B; Dimethyl-p-toluidine |
|-----------------------|--------------------------|

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

Full text of any H- and EUH-statements referred to under heading 3:

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H224 Extremely flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.

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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 (reproductive organs) through prolonged or repeated exposure if swallowed.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

| | |
|--------------|--|
| (*) | INTERNAL CLASSIFICATION BY BIG |
| ADI | Acceptable daily intake |
| AOEL | Acceptable operator exposure level |
| CLP (EU-GHS) | Classification, labelling and packaging (Globally Harmonised System in Europe) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| EC50 | Effect Concentration 50 % |
| ErC50 | EC50 in terms of reduction of growth rate |
| LC50 | Lethal Concentration 50 % |
| LD50 | Lethal Dose 50 % |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent, Bioaccumulative & Toxic |
| PNEC | Predicted No Effect Concentration |
| STP | Sludge Treatment Process |
| vPvB | very Persistent & very Bioaccumulative |

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. 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.