

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 08.12.2022

Version number 7 (replaces version 6)

Revision: 08.12.2022

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

#### 1.1 Product identifier

Trade name: **Akefix Activator**

Article number: 30321

UFI: 37H4-P0WA-G00G-142G

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

No further relevant information available.

Application of the substance / the mixture

Activator

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH  
 Lechstrasse 28  
 D 90451 Nürnberg

Tel. +49(0)911-642960  
 Fax. +49(0)911-644456  
 e-mail info@akemi.de

Further information obtainable from:

Laboratory

#### 1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH  
 Tel. +49(0)911-64296-59  
 Reachable during the following office hours:  
 Monday – Thursday from 07:30 a.m. to 16:30 p.m.  
 Friday from 07:30 a.m. to 13:30 p.m.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS02 GHS07

Signal word

Danger

Hazard-determining components of labelling:

acetone

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

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.

P261 Avoid breathing spray.

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- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P405 Store locked up.
- 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 regulations.
- Additional information: EUH066 Repeated exposure may cause skin dryness or cracking. Buildup of explosive mixtures possible without sufficient ventilation.

**· 2.3 Other hazards**· Results of PBT and vPvB assessment· PBT: Not applicable.· vPvB: Not applicable.**SECTION 3: Composition/information on ingredients****· 3.2 Mixtures**· Description: Mixture: consisting of the following components.· Dangerous components:

|                                                                                                   |                                                                                                                                      |         |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------|
| CAS: 115-10-6<br>EINECS: 204-065-8<br>Index number: 603-019-00-8<br>Reg.nr.: 01-2119472128-37     | dimethyl ether<br>Flam. Gas 1A, H220<br>Press. Gas (Comp.), H280                                                                     | 50-100% |
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Index number: 606-001-00-8<br>Reg.nr.: 01-2119471330-49      | acetone<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336<br>EUH066                                                       | 25-50%  |
| CAS: 99-97-8<br>EINECS: 202-805-4<br>Index number: 612-056-00-9<br>Reg.nr.: 01-2119937766-23-xxxx | N,N-dimethyl-p-toluidine<br>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331<br>STOT RE 2, H373<br>Aquatic Chronic 3, H412 | <1%     |

· Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures**

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.  
In cases of frost bites, rinse with plenty of water. Do not remove clothing.  
Seek immediate medical advice.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.

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· **4.2 Most important symptoms and effects, both acute and delayed**

Headache  
Dizziness

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:**

Water with full jet

· **5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.  
Wear fully protective suit.

· **Additional information**

Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Keep away from ignition sources.

· **6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Pick up mechanically.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Keep away from heat and direct sunlight.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

**· 7.2 Conditions for safe storage, including any incompatibilities****· Storage:****· Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurised containers.

**· Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from flammable substances.

**· Further information about storage conditions:**

Protect from frost.

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

**· Storage class:**

2 B

**· 7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection****· 8.1 Control parameters****· Ingredients with limit values that require monitoring at the workplace:****115-10-6 dimethyl ether**IOELV Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm**67-64-1 acetone**IOELV Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm**· DNELs****115-10-6 dimethyl ether**

|            |                            |                                   |
|------------|----------------------------|-----------------------------------|
| Inhalative | DNEL (Langzeit-wiederholt) | 1,894 mg/m <sup>3</sup> Air (ARB) |
|            |                            | 471 mg/m <sup>3</sup> Air (BEV)   |

**67-64-1 acetone**

|            |                            |                                   |
|------------|----------------------------|-----------------------------------|
| Oral       | DNEL (Langzeit-wiederholt) | 62 mg/kg bw/day (BEV)             |
| Dermal     | DNEL (Langzeit-wiederholt) | 186 mg/kg bw/day (ARB)            |
|            |                            | 62 mg/kg bw/day (BEV)             |
| Inhalative | DNEL (Kurzzeit-akut)       | 2,420 mg/m <sup>3</sup> Air (ARB) |
|            | DNEL (Langzeit-wiederholt) | 1,210 mg/m <sup>3</sup> Air (ARB) |
|            |                            | 200 mg/m <sup>3</sup> Air (BEV)   |

**99-97-8 N,N-dimethyl-p-toluidine**

|            |                            |                                   |
|------------|----------------------------|-----------------------------------|
| Oral       | DNEL (Langzeit-wiederholt) | 0.174 mg/kg bw/day (BEV)          |
| Dermal     | DNEL (Langzeit-wiederholt) | 0.694 mg/kg bw/day (ARB)          |
|            |                            | 0.347 mg/kg bw/day (BEV)          |
| Inhalative | DNEL (Langzeit-wiederholt) | 1,224 mg/m <sup>3</sup> Air (ARB) |
|            |                            | 0.302 mg/m <sup>3</sup> Air (BEV) |

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· PNECs**115-10-6 dimethyl ether**

|                |                                                                                              |
|----------------|----------------------------------------------------------------------------------------------|
| PNEC (wässrig) | 160 mg/l (KA)<br>0.016 mg/l (MW)<br>0.155 mg/l (SW)                                          |
| PNEC (fest)    | 0.045 mg/kg Trockengew (BO)<br>0.0681 mg/kg Trockengew (MWS)<br>0.681 mg/kg Trockengew (SWS) |

**67-64-1 acetone**

|                |                                                                                          |
|----------------|------------------------------------------------------------------------------------------|
| PNEC (wässrig) | 100 mg/l (KA)<br>1.06 mg/l (MW)<br>10.6 mg/l (SW)<br>21 mg/l (WAS)                       |
| PNEC (fest)    | 29.5 mg/kg Trockengew (BO)<br>3.04 mg/kg Trockengew (MWS)<br>30.4 mg/kg Trockengew (SWS) |

**99-97-8 N,N-dimethyl-p-toluidine**

|                |                                                                                                |
|----------------|------------------------------------------------------------------------------------------------|
| PNEC (wässrig) | 1.36 mg/l (KA)<br>0.001 mg/l (MW)<br>0.014 mg/l (SW)                                           |
| PNEC (fest)    | 20.365 mg/kg Trockengew (BO)<br>48.245 mg/kg Trockengew (MWS)<br>48.245 mg/kg Trockengew (SWS) |

· Additional information: The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.

- Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Short term filter device:

Filter AX

- Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior

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- Penetration time of glove material to the application.  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR
- As protection from splashes gloves made of the following materials are suitable: Butoject (KCL, Art\_No. 897, 898)  
Butyl rubber, BR
- Not suitable are gloves made of the following materials: Nitrile rubber, NBR
- Eye/face protection  Tightly sealed goggles
- Body protection: Protective work clothing

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

- General Information
- Colour: Colourless
- Odour: Acetone-like
- Odour threshold: Not determined.
- Melting point/freezing point: Undetermined.
- Boiling point or initial boiling point and boiling range Not applicable, as aerosol.
- Flammability Not applicable.
- Lower and upper explosion limit
- Lower: 2.6 Vol %
- Upper: 18.6 Vol %
- Flash point: Not applicable, as aerosol.
- Ignition temperature: 235 °C (115-10-6 dimethyl ether)
- Decomposition temperature: Not determined.
- pH Not determined.
- Viscosity:
- Kinematic viscosity Not determined.
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 5,200 hPa
- Density and/or relative density
- Density at 20 °C: 0.7 g/cm<sup>3</sup>
- Relative density Not determined.
- Vapour density Not determined.

#### · 9.2 Other information

- Appearance:
- Form: Aerosol
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: In use, may form flammable/explosive vapour-air mixture.
- Solvent content:
- Organic solvents: 99.8 %

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· Change in condition· Evaporation rate

Not applicable.

· Information with regard to physical hazard classes· Explosives

Void

· Flammable gases

Void

· Aerosols

Extremely flammable aerosol. Pressurised container: May burst if heated.

· Oxidising gases

Void

· Gases under pressure

Void

· Flammable liquids

Void

· Flammable solids

Void

· Self-reactive substances and mixtures

Void

· Pyrophoric liquids

Void

· Pyrophoric solids

Void

· Self-heating substances and mixtures

Void

· Substances and mixtures, which emit flammable gases in contact with water

Void

· Oxidising liquids

Void

· Oxidising solids

Void

· Organic peroxides

Void

· Corrosive to metals

Void

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· Desensitised explosives

Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Forms explosive gas mixture with air.  
Forms explosive gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

|        |          |                       |
|--------|----------|-----------------------|
| Oral   | ATE-Wert | 58,582 mg/kg (calc.)  |
| Dermal | ATE mix  | 175,747 mg/kg (calc.) |

**115-10-6 dimethyl ether**

|            |          |                             |
|------------|----------|-----------------------------|
| Inhalative | LC50/4h  | 164,000 mg/m3 (rat)         |
|            | LC50/4 h | 164 mg/l (rat)              |
|            | LC50/48h | >4,000 mg/l (daphnia magna) |

**67-64-1 acetone**

|            |          |                                |
|------------|----------|--------------------------------|
| Oral       | LD50     | 5,800 mg/kg (rat) (OECD 401)   |
|            | NOEL     | 900 mg/kg (rat)                |
| Dermal     | LD50     | 15,688 mg/kg (rat)             |
|            |          | 7,426-15,800 mg/kg (rbt)       |
| Inhalative | LC50/4 h | 76 mg/l (rat)                  |
|            | NOAEL    | 22,500 mg/m <sup>3</sup> (rat) |
|            | LC50/48h | 8,450 mg/l (cru)               |
|            |          | 2,262 mg/l (daphnia magna)     |

**99-97-8 N,N-dimethyl-p-toluidine**

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 139 mg/kg (mouse)     |
|            |          | 1,650 mg/kg (rat)     |
| Dermal     | LD50     | >2,000 mg/kg (rabbit) |
| Inhalative | LC50/4h  | 1,400 mg/m3 (rat)     |
|            | LC50/4 h | 1.4 mg/l (rat)        |

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.

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- STOT-single exposure May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

## · Endocrine disrupting properties

None of the ingredients is listed.

**SECTION 12: Ecological information**· **12.1 Toxicity**

## · Aquatic toxicity:

EC50/48h 8,800 mg/l (daphnia magna)

**115-10-6 dimethyl ether**

|          |                                                |
|----------|------------------------------------------------|
| EC50/96h | 154.9 mg/l (green alge)                        |
|          | >4,000 mg/l (poecilia reticulata)              |
|          | 154.917 mg/l (Pseudokirchneriella subcapitata) |
| EC50/48h | >4,000 mg/l (daphnia magna)                    |
| LC50/96h | >4,000 mg/l (poecilia reticulata)              |

**67-64-1 acetone**

|           |                                         |
|-----------|-----------------------------------------|
| EC50/96h  | 7,200 mg/l (green alge)                 |
|           | 8,300 mg/l (piscis)                     |
|           | 8,300 mg/l (lepomis macrochirus)        |
|           | 7,500 mg/l (selenastrum capricornutum)  |
| EC50      | 1,700 mg/l (bacteria)                   |
| LC50      | 6,368 mg/l (piscis)                     |
| EC5/16h   | 1,700 mg/l (pseudomonas putida)         |
| EC5/72h   | 28 mg/l (Entosiphon sulcatum)           |
| EC5/8d    | 530 mg/l (Microcystis aeruginosa)       |
| IC5/8d    | 7,500 mg/l (Scenedesmus quadricauda)    |
| EC50/48h  | 3,400 mg/l (green alge)                 |
|           | 8,800 mg/l (daphnia magna)              |
| NOEC      | 1,700 mg/kg (pseudomonas putida)        |
|           | 4,740 mg/kg (selenastrum capricornutum) |
| NOELR/28d | 2,212 mg/l (daphnia magna)              |
| EC50/48h  | 12,600 mg/l (Danio rerio.)              |
|           | 8,800 mg/l (daphnia magna)              |
| LC50/96h  | 8,300 mg/l (lem)                        |
|           | 8,300 mg/l (lepomis macrochirus)        |
|           | 7,500 mg/l (Leuciscus idus)             |
|           | 5,540 mg/l (Oncorhynchus mykiss)        |
|           | 8,120 mg/l (Pimephales promelas)        |

**99-97-8 N,N-dimethyl-p-toluidine**

|          |                            |
|----------|----------------------------|
| EC50/48h | 13.7 mg/l (daphnia magna)  |
| EC50/72h | 22-24.37 mg/l (green alge) |
| LC50/96h | 46-52 mg/l (piscis)        |

· **12.2 Persistence and degradability**

No further relevant information available.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

|           |                                                                                                              |
|-----------|--------------------------------------------------------------------------------------------------------------|
| 16 00 00  | WASTES NOT OTHERWISE SPECIFIED IN THE LIST                                                                   |
| 16 05 00  | gases in pressure containers and discarded chemicals                                                         |
| 16 05 04* | gases in pressure containers (including halons) containing hazardous substances                              |
| 15 00 00  | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 00  | packaging (including separately collected municipal packaging waste)                                         |
| 15 01 10* | packaging containing residues of or contaminated by hazardous substances                                     |
| 15 00 00  | WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED |
| 15 01 00  | packaging (including separately collected municipal packaging waste)                                         |
| 15 01 04  | metallic packaging                                                                                           |

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

· **14.3 Transport hazard class(es)**· **ADR**· **Class** 2 5F Gases.

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EU

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|                                                                                   |                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <u>Label</u>                                                                    | 2.1                                                                                                                                                                                                                                                                                                                                              |
| · <u>IMDG, IATA</u>                                                               |                                                                                                                                                                                                                                                                                                                                                  |
|  |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>Class</u>                                                                    | 2.1 Gases.                                                                                                                                                                                                                                                                                                                                       |
| · <u>Label</u>                                                                    | 2.1                                                                                                                                                                                                                                                                                                                                              |
| · <b>14.4 Packing group</b>                                                       |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>ADR, IMDG, IATA</u>                                                          | Void                                                                                                                                                                                                                                                                                                                                             |
| · <b>14.5 Environmental hazards:</b>                                              |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>Marine pollutant:</u>                                                        | No                                                                                                                                                                                                                                                                                                                                               |
| · <b>14.6 Special precautions for user</b>                                        | Warning: Gases.                                                                                                                                                                                                                                                                                                                                  |
| · <u>Hazard identification number (Kemler code):</u>                              | -                                                                                                                                                                                                                                                                                                                                                |
| · <u>EMS Number:</u>                                                              | F-D,S-U                                                                                                                                                                                                                                                                                                                                          |
| · <u>Stowage Code</u>                                                             | SW1 Protected from sources of heat.<br>SW22 For AEROSOLS with a maximum capacity of 1 litre:<br>Category A. For AEROSOLS with a capacity above 1 litre:<br>Category B. For WASTE AEROSOLS: Category C, Clear of<br>living quarters.                                                                                                              |
| · <u>Segregation Code</u>                                                         | SG69 For AEROSOLS with a maximum capacity of 1 litre:<br>Segregation as for class 9. Stow "separated from" class 1<br>except for division 1.4.<br>For AEROSOLS with a capacity above 1 litre:<br>Segregation as for the appropriate subdivision of class 2.<br>For WASTE AEROSOLS:<br>Segregation as for the appropriate subdivision of class 2. |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b>             | Not applicable.                                                                                                                                                                                                                                                                                                                                  |
| · <u>Transport/Additional information:</u>                                        |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>ADR</u>                                                                      |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>Limited quantities (LQ)</u>                                                  | 1L                                                                                                                                                                                                                                                                                                                                               |
| · <u>Excepted quantities (EQ)</u>                                                 | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                                                                                                                                                                   |
| · <u>Transport category</u>                                                       | 2                                                                                                                                                                                                                                                                                                                                                |
| · <u>Tunnel restriction code</u>                                                  | D                                                                                                                                                                                                                                                                                                                                                |
| · <u>IMDG</u>                                                                     |                                                                                                                                                                                                                                                                                                                                                  |
| · <u>Limited quantities (LQ)</u>                                                  | 1L                                                                                                                                                                                                                                                                                                                                               |
| · <u>Excepted quantities (EQ)</u>                                                 | Code: E0<br>Not permitted as Excepted Quantity                                                                                                                                                                                                                                                                                                   |
| · <u>UN "Model Regulation":</u>                                                   | UN 1950 AEROSOLS, 2.1                                                                                                                                                                                                                                                                                                                            |

**SECTION 15: Regulatory information**

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

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004;  
1907/2006 (REACH); 1272/2008; 75/324/EWG (2008/47/EG); 453/2010/EG

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 08.12.2022

Version number 7 (replaces version 6)

Revision: 08.12.2022

**Trade name: Akefix Activator**

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- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P3a FLAMMABLE AEROSOLS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1 acetone

· Regulation (EC) No 273/2004 on drug precursors

67-64-1 acetone

3

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

67-64-1 acetone

3

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 701.6 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Laboratory
- Contact: Elke Hake  
Fon ++49 (0)911 64296-59  
@mail E.Hake@akemi.de
- Date of previous version: 08.12.2022
- Version number of previous version: 6
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances

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EU

## Safety data sheet

according to 1907/2006/EC, Article 31

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Gas 1A: Flammable gases – Category 1A  
Aerosol 1: Aerosols – Category 1  
Press. Gas (Comp.): Gases under pressure – Compressed gas  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 3: Acute toxicity – Category 3  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU