

# Safety data sheet

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

Printing date 14.03.2017

Revision: 14.03.2017

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

- **1.1 Product identifier**
- **Trade name:** **AKTIVATOR ZUR GRUNDIERUNG VON SCHEIBEN**
- **Article number:** 82230
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **1.2.1 Relevant identified uses**
- **Sector of Use**
  - SU3 Industrial uses: uses of substances as such or in preparations at industrial sites
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC1 Adhesives, sealants
- **Process category** PROC4 Chemical production where opportunity for exposure arises
- **Environmental release category** ERC5 Use at industrial site leading to inclusion into/onto article
- **Application of the substance / the preparation :** Primer for adhesive or sealant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
  - PETEC Verbindungstechnik GmbH
  - Wüstenbuch 26
  - 96132 SCHLÜSSELFELD / DEUTSCHLAND
  - Telefon +49 (0) 9555 80994-0
  - Fax +49 (0) 9555-80994-25
  - Homepage [www.petec.de](http://www.petec.de)
  - E-Mail : [info@petec.de](mailto:info@petec.de)
- **Information department:** Laboratory
- **1.4 Emergency telephone number:** +49 (0) 9555 80994-0

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
  - Flam. Liq. 2 H225 Highly flammable liquid and vapour.
  - Eye Irrit. 2 H319 Causes serious eye irritation.
  - Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - STOT SE 3 H336 May cause drowsiness or dizziness.

#### 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
  - The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
  - ethyl acetate
  - Tris(p-isocyanatophenyl) thiophosphate
  - p-toluenesulphonyl isocyanate
- **Hazard statements**
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 Do not breathe vapours.

P284 In case of inadequate ventilation wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face 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.

P501 Dispose of contents and container in accordance with local regulations.

• **Advised precautionary statements** P102 Keep out of reach of children.**Additional information :**

Contains isocyanates. May produce an allergic reaction.

**2.3 Other hazards****Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**• **Description:** Product based upon polyisocyanate**Dangerous components:**

CAS: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46	ethyl acetate ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	90-96%
CAS: 4151-51-3 Reg.nr.: 01-2119948848-16	Tris(p-isocyanatophenyl) thiophosphate ⚠ Resp. Sens. 1, H334	2-5%
CAS: 4083-64-1 EINECS: 223-810-8 Reg.nr.: 01-2119980050-47	p-toluenesulphonyl isocyanate ⚠ Resp. Sens. 1, H334; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	< 1%
CAS: 108-90-7 EINECS: 203-628-5	chlorobenzene ⚠ Flam. Liq. 3, H226; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H332	< 0.5%

• **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.• **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.• **After swallowing** Do not induce vomiting; call for medical help immediately.**4.2 Most important symptoms and effects, both acute and delayed**

Nausea

Breathing difficulty

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Dizziness

Headache

· **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>, extinguishing powder or water spray.

· **For safety reasons unsuitable extinguishing agents** Water with full jet.

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

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

In certain fire conditions, traces of other toxic gases cannot be excluded, e.g.:

Hydrogen cyanide (HCN)

Isocyanates

· **5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

· **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

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

Pick up mechanically.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Do not close them (reaction with water forming carbon dioxide).

· **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**

Avoid contact with skin and eyes.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Provide ventilation for receptacles.

· **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:**  
 Keep receptacle tightly sealed.  
 Protect from humidity and water.  
 Store in a cool place.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**141-78-6 ethyl acetate**

WEL	Short-term value: 400 ppm Long-term value: 200 ppm
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**4083-64-1 p-toluenesulphonyl isocyanate**

WEL	Short-term value: 0.07 mg/m <sup>3</sup> Long-term value: 0.02 mg/m <sup>3</sup> Sen; as -NCO
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**108-90-7 chlorobenzene**

WEL	Short-term value: 14 mg/m <sup>3</sup> , 3 ppm Long-term value: 4.7 mg/m <sup>3</sup> , 1 ppm Sk
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- **Additional information:** The lists that were valid during the creation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
 Wash hands before breaks and at the end of work.  
 Immediately remove all soiled and contaminated clothing.  
 Do not inhale gases / fumes / aerosols.  
 Do not eat, drink, smoke while working.
- **Breathing equipment:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.  
 Short term filter device:  
 Filter AB
- **Protection of hands:**  
 PVA or natural rubber gloves of superior quality.  
 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 to the application.
- **Eye protection:** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

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### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Appearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Light

##### · Change in condition

Melting point/freezing point:	-83.57 °C
Initial boiling point and boiling range:	76 °C

Flash point:	-5 °C (ISO 1523)
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Self-ignition temperature:	> 200 °C
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Decomposition temperature:	> 140 °C
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Self igniting:	Product is not selfigniting at room temperature.
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Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible
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##### · Explosion limits:

Lower:	2 Vol %
Upper:	11.5 Vol %

Density at 20 °C:	0.94
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Solubility in / Miscibility with Water at 20 °C:	79 g/l
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##### · Viscosity:

dynamic at 20 °C:	1 mPa.s
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9.2 Other information	No further relevant information available.
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### 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

Reacts with alcohols, amines, aqueous acids and alkalis.

Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

· 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

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· **LD/LC50 values that are relevant for classification:**

**141-78-6 ethyl acetate**

Oral	LD50	4935 mg/kg (rbt)
Inhalative	LC50/4 h	1600 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Frequent or prolonged contact may irritate and cause dermatitis.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.
- **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.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must be disposed of in an incinerator for hazardous waste according to official regulations.
- **Waste disposal key:** 14 06 03\*
- **Uncleaned packaging :**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1993

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<ul style="list-style-type: none"> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG, IATA</li> </ul>	1993 FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa) (ETHYL ACETATE) FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE)
<ul style="list-style-type: none"> <li>14.3 Transport hazard class(es)</li> <li>ADR, IMDG, IATA</li> </ul>	
	
<ul style="list-style-type: none"> <li>Class</li> <li>Label</li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	II
<ul style="list-style-type: none"> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul style="list-style-type: none"> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E, S-E B
<ul style="list-style-type: none"> <li>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>Transport/Additional information:</li> </ul>	
<ul style="list-style-type: none"> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>UN "Model Regulation":</li> </ul>	UN 1993 FLAMMABLE LIQUID, N.O.S. (VAPOUR PRESSURE AT 50 °C NOT MORE THAN 110 KPA) (ETHYL ACETATE), 3, II

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS

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- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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.*

*This data sheet is particularly in accordance with the european regulations 1907/2006/EC, 1272/2008/EC and their amendments ; it is written according to annex II of the european regulation 830/2015/EC.*

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Laboratory

- **Contact:** cf. § 1

- **Review :**

*An asterisk in the margin of a paragraph means amendments in comparison to the former version.*

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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### Annex: Exposure scenario

- **Short title of the exposure scenario**

*Industrial use for rigid foam, coatings and adhesives and sealants*

*Professional end use in rigid foam, coatings, adhesives and sealants and other composite material*

*Consumer end use in rigid foam, coatings and adhesives and sealants*

- **Sector of Use**

*SU3 Industrial uses: uses of substances as such or in preparations at industrial sites*

*SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)*

- **Product category**

*PC1 Adhesives, sealants*

*PC9a Coatings and paints, thinners, paint removers*

- **Process category PROC4 Chemical production where opportunity for exposure arises**

- **Environmental release category ERC5 Use at industrial site leading to inclusion into/onto article**

- **Conditions of use** According to directions for use.

- **Duration and frequency**

*SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :*

*1-4 hour(s)/day*

*> 4 days /week*

*< 240 days/year*

*SU22 / PROC8a, PROC8b, PROC10, PROC11, PROC19 :*

*up to 1 hour(s) per day*

*Up to > 4 days / week, < 300 days / year*

*Exposed skin surface (hands and forearms) up to 1 500 cm<sup>2</sup>*

*SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :*

*Exposed skin surface (hands) up to 960 cm<sup>2</sup>*

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture**

*SU21 / PC9a / ERC8a :*

*Maximum weight fraction of the substance in the product (in liquid form) : 25 %*

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure**

*Observe section 6 of the Safety Data Sheet (Accidental release measures).*

- **Other operational conditions affecting worker exposure**

*Avoid contact with the skin and eyes.*

*Take precautionary measures against static discharge.*

*Keep away from sources of ignition - No smoking.*

*Ensure adequate ventilation, especially in closed rooms.*

*Avoid contact with eyes.*

- **Other operational conditions affecting consumer exposure**

*SU21, PC9a, ERC8a :*

*Keep out of the reach of children.*

*Spray application : maximum use time : 15 min (maximum 0.5 g/s)*

*Roller or brush application (solvent rich mixture) : maximum 300 g*

*Non-spray applications : 132 min per event*

*Frequency of use : maximum 5 times per year*

*Room air ventilation factor :*

*in case of brush or roller application : 0.6*

*in case of spray application : 1.5*

*Minimum room volume (when indoors) : 20 m<sup>3</sup>*

- **Other operational conditions affecting consumer exposure during the use of the product**

*Application temperature : room temperature*

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- **Risk management measures**

- **Worker protection**

Avoid direct contact with skin. Wear suitable tested to EN 374 during the activities where skin contact is possible.

Do not eat, drink, smoke while working.

- **Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaust or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Spray application

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Local exhaust ventilation in case of indoor use : efficiency > 95 %.

Do not carry out operation for more than 1 hour without respiratory protection (PPE).

Non-spray application

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Local exhaust ventilation in case of indoor use : efficacy > 95 %

Ensure an adequate controlled ventilation (5 to 15 air changes per hour). Provide additional ventilation where emissions occur.

Do not exceed normal working hours per worker.

Ensure that activities are executed by specialists or authorised personnel only.

- **Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

- **Personal protective measures**

Do not inhale gases / fumes / aerosols.

Tightly sealed goggles.

Avoid contact with the eyes.

Protective work clothing.

- **Measures for consumer protection**

Ensure adequate labelling.

Protective gloves

Tightly sealed goggles.

Keep locked up and out of the reach of children.

- **Environmental protection measures**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 300 day(s)/year

Amount used locally : 333 kg/d maximum

Non-spray application

SU3 / PROC5, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 300 day(s)/year

Amount used locally : 1800 kg/d maximum

SU21, PC9a, ERC8a (estimation based on l'Ectoc TRA, model v2) :

Release times per year : up to 365 day(s)/year

Amount used locally : 0.3 kg/d maximum

- **Air**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 60 kg/d maximum

Non-spray application

SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 165 kg/d maximum

SU21, PC9a, ERC8a (estimation based on l'Ectoc TRA, model v2) :

Local release to air : 0.27 kg/d maximum

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• **Water**

SU3 :

Size of the sewage treatment plant : > 2.000 m<sup>3</sup>/day

Dégradation efficiency : > 90 %

SU21 :

Size of the sewage treatment plant : > 2 000 m<sup>3</sup>/day

Dégradation efficiency : > 70 %

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

Local release to waste water : 6.7 kg/d maximum

Non-spray application

SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

Local release to waste water : 36.7 kg/d maximum

SU21, PC9a, ERC8a :

Local release to waste water : 0.27 kg/d maximum

Do not allow to reach ground water, water bodies or sewage system.

• **Soil**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

Maximum local release to soil : 0.3 kg/d

Non-spray application

SU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

Maximum local release to soil : 1.8 kg/d

SU21, PC9a, ERC8a :

Maximum local release to soil : 0 kg/d

Prevent contamination of soil.

• **Disposal measures**

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

• **Disposal procedures**

Product residues are incinerated as special waste.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

• **Exposure estimation**

• **Environment**

Application by spraying

SU3 / PROC5, PROC7, PROC8a, PROC8b / ERC4 :

Predicted environmental concentrations (PECs)

In sewage treatment plant (STP) : 0.393 mg/l

In local freshwater : 0.042 mg/l

In local freshwater sediment : 0.056 mg/kg

In local soil : 0.010 mg/kg

In local marine water : 0.004 mg/l

In local marine sediment : 0.005 mg/kg

Total daily intake via local environment : 0.0015 mg/kgdw/d

Risk characterization ratios (RCRs)

In sewage treatment plant (STP) : < 0.001

In local freshwater : 0.162

In local freshwater sediment : 0.200

In local soil : 0.033

In local marine water : 0.162

In local marine sediment : 0.019

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# Safety data sheet

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

Printing date 14.03.2017

Revision: 14.03.2017

**Trade name: AKTIVATOR ZUR GRUNDIERUNG VON SCHEIBEN**

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Total daily intake via local environment : &lt; 0.001

Dermal exposure estimate : 0.034

Inhalation exposure estimate : 0.075

Combined exposure estimate : 0.159

Non-spray applicationSU3 / PROC5, PROC8a, PROC8b, PROC10, PROC13 / ERC4 (estimation based on l'Ecetoc TRA, model v2) :

Predicted environmental concentrations (PECs)

In sewage treatment plant (STP) : 1.426 mg/l

In local freshwater : 0.145 mg/l

In local freshwater sediment : 0.193 mg/kg

In local soil : 0.056 mg/kg

In local marine water : 0.014 mg/l

In local marine sediment : 0.019 mg/kg

Total daily intake via local environment : 0.006 mg/kgdw/d

Risk characterization ratios (RCRs)

In sewage treatment plant (STP) : 0.002

In local freshwater : 0.559

In local freshwater sediment : 0.690

In local soil : 0.181

In local marine water : 0.559

In local marine sediment : 0.069

Total daily intake via local environment : 0.004

Dermal exposure estimate : 0.022

Inhalation exposure estimate : 0.075

Combined exposure estimate : 0.146

SU21, PC9a, ERC8a :

Predicted environmental concentrations (PECs)

In sewage treatment plant (STP) : 0.0161 mg/l

In local freshwater : 0.004 mg/l

In local freshwater sediment : 0.0059 mg/kg

In local soil : 0.0001 mg/kg

In local marine water : 0.0004 mg/l

In local marine sediment : 0.0005 mg/kg

Total daily intake via local environment : 0.0001 mg/kgdw/d

Risk characterization ratios (RCRs)

In sewage treatment plant (STP) : &lt; 0.001

In local freshwater : 0.017

In local freshwater sediment : 0.021

In local soil : &lt; 0.001

In local marine water : 0.017

In local marine sediment : 0.002

Total daily intake via local environment : &lt; 0.001

Inhalation mean event concentration : 0.97

Inhalation acute internal dose : 0.33

SU22 / PROC1, PROC2, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19 / ERC8a, ERC8d :

Predicted environmental concentrations (PECs)

In sewage treatment plant (STP) : 1.369 mg/l

In local freshwater : 0.139 mg/l

In local freshwater sediment : 0.186 mg/kg

In local soil : 0.0002 mg/kg

In local marine water : 0.014 mg/l

In local marine sediment : 0.018 mg/kg

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**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

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*Total daily intake via local environment : 0.003 mg/kgdw/d**Risk characterization ratios (RCRs)**In sewage treatment plant (STP) : 0.002**In local freshwater : 0.537**In local freshwater sediment : 0.663**In local soil : < 0.001**In local marine water : 0.537**In local marine sediment : 0.066**Total daily intake via local environment : < 0.001**Dermal exposure estimate : 0.45**Inhalation exposure estimate : 0.30**Combined exposure estimate : 0.95**· **Consumer** Not relevant for this Exposure Scenario.**· **Guidance for downstream users****For the risk assessment, the tools recommended by ECHA can be used.*

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