

Material Safety Data Sheet**SC-AwaTec® pur II Component A**

SC-SDB SC-AwaTec-pur II Komp. A E-Rev 01.docx

in accord. with Regulation (EC) 1907/2006/EG, Article 31

Version: 01.03.2018

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Section 1 Identification of the product and of the company**1.1 Product identifier**

SC-AwaTec® pur II Component A

Contains: Dibutyl tin dilaurate [CAS: 77-58-7]**1.2 Relevant identified uses of the mixture and uses advised against**

No relevant information available.

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier**

Th. Scholten GmbH & Co. KG

Robert-Bosch-Straße 23-25

D-42489 Wülfrath

Tel.: +49 2058 9245 0

E-Mail: scholten@scholten-gmbh.de

Section 2 Hazards identification**2.1 Classification of the substance or mixture****According to Regulation (EC) No. 1272/2008**

Skin irritation	Category 2 (Skin Irrit. 2)
Causes skin irritation	H315
Eye irritation	Category 2 (Eye Irrit. 2)
Causes severe eye irritation	H319
Reproduction toxicity	Category 1B (Repr. 1B)
May damage fertility.	H360FD
May damage the unborn child.	
Aquatic environment, long-term hazard	Category Chronic 3 (Aqu. Chron. 3)
Harmful to aquatic life, with long-lasting effects.	H412

2.2 Label elements according to Regulation (EC) No. 1272/2008

The product is classified and labelled in accordance with CLP Regulation.

Hazard pictogramsSignal word:

Danger

Contains:

Dibutyl tin dilaurate [CAS: 77-58-7]

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Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360FD	May damage fertility. May damage the unborn child.
H412	Harmful to aquatic life, with long-lasting effects.
EUH208	Contains dibutyl tin dilaurate and potassium 2 ethylhexanoate hydrate. May produce allergic reactions.

Precautionary statements

P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P302+P352	<u>If on skin:</u> Wash with plenty of water.
P305+P351+P338	<u>If in eyes:</u> Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P332+P313	<u>If skin irritation occurs:</u> Get medical advice or attention.
P337+P313	If eye irritation persists: Get medical advice or attention.

2.3 Other hazards

No relevant data available.

Section 3 Composition / information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Identification name (Reg. Number)	Contents [%]	CAS Number	EU-Number	Index-Number	Classification	
					Regulation (EC) No. 1272/2008	
					Hazard class and category	Hazard statements
tris(2-chloro-1-methylethyl) phosphate (01-2119480419-30-0000)	< 25	13674-84-5	237-158-7	-	Acute Tox. 4 oral	H302
					Skin Irrit. 2	H315
					Eye Irrit. 2	H319
Ethandiol (01-2119456816-28-XXX)	< 5	107-21-1	203-473-3	603-027-00-1	Acute Tox. 4 oral	H302
					STOT RE 2	H373
Potassium 2-Ethylhexanoate Hydrate (-)	< 1	3164-85-0	221-625-7	-	Skin Sens. 1	H317
					Eye Dam. 1	H318
					Repr. 1B	H361d



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Dibutyl tin dilaurate (01-2119496068- 27)	< 1	77-58-7	201-039-8	-	Skin. Corr. 1C	H314
					Skin Sens. 1	H317
					Muta 2	H341
					Repr. 1B	H360FD
					STOT SE 1	H370
					STOT RE 1	H372
					Aquatic Acute 1	H400
					Aquatic Chronic 1	H410

See Section 16 for wordings of the hazard statements.

Section 4 First Aid measures

4.1 Description of First Aid measures

General notes:	In the event of an accident or physical discomfort incurred by the product, protect the person from further risk and immediately seek medical attention.
If inhaled:	Move the person to fresh air. Seek medical attention if experiencing any discomfort.
If on skin:	Remove contaminated clothing. Immediately wash off with water and soap, rinse thoroughly. Seek medical attention if experiencing any discomfort.
If in eyes:	Remove contact lenses if present and easy to do. Rinse eyes open for at least 15 minutes under running water. Immediately seek medical attention.
If swallowed:	Immediately rinse mouth with plenty of water. Do not induce vomiting. Seek medical attention if experiencing any discomfort.

4.2 Most important acute and delayed symptoms and effects

No relevant data available.

4.3 Indication of any immediate medical attention and special treatment needed

If in eyes or swallowed, always seek immediate medical attention.

Section 5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: chemical dry extinguishing media, CO₂, foam or sand for fire-fighting
Unsuitable extinguishing media: water may be used if no other extinguishing media are available.

5.2 Special hazards arising from the substance or mixture.

The product is not classified as combustible.
 Products of incomplete combustion may contain gaseous CO₂

5.3 Advice for fire-fighters

No specific measures required.

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Section 6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away. Ensure sufficient ventilation.

6.2 Environmental precautions

Do not discharge into sewage and drainage systems or into bodies of water. Secure drains.

6.3 Methods and material for containment and cleaning up

Collect the spillage with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See section 7 for information on safe handling.

See section 8 for information on personal protective equipment.

See section 13 for details on disposal.

Section 7 Handling and storage**7.1 Precautions for safe storage**

Store product in tightly closed containers. Avoid skin and eye contact. Do not eat or drink in areas where the product is handled and stored. Avoid contact with isocyanates; an uncontrolled exothermic reaction may be delayed. Keep away from strong oxidizing agents. Do not expose containers to direct sunlight.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a well ventilated, dry and cool room. Keep away from oxidizing agents, strong acids and alkalis. Once opened, keep container tightly closed and store appropriately to avoid any leakage.

Recommended storage temperature between +10 and +30°C.

Packing material:

Suitable: steel, stainless steel.

Unsuitable: copper, copper alloys and galvanized surfaces.

7.3 Specific end use(s)

No further relevant data available.

Section 8 Exposure controls / personal protection**8.1 Control parameter**

Ethandiol:

Occupational exposure limit (Germany) 26 mg/m³, 10 ml/m³

2(I);DFG, EU, H, Y

IOELV (European Union) Short-term value: 104 mg/m³, 40 ml/m³

Long-term value: 52 mg/m³, 20 ml/m³

Skin

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Ethandiol:**DNEL values:**

For workers in conditions of long-term dermal (systemic) exposition: 106 mg/kg bodyweight.

For workers in conditions of long-term inhalative (local) exposition: 35 mg/kg bodyweight.

For the general population, including end consumers, in conditions of long-term dermal (systemic) exposition: 53 mg/kg bodyweight.

For the general population, including end consumers, in conditions of long-term inhalative (local) exposition: 7 mg/kg bodyweight.

PNEC values:

for freshwater environment: 10 mg/l

for seawater: 1 mg/l

for mixed water: 10 mg/l

for activated sludge (freshwater): 20,9 mg/kg

for sewage treatment: 199 mg/l

Dibutyl tin dilaurate:**DNEL/DMEL values:**

Area of application: worker.

Route of exposure: skin contact

Effect on health: systemic effects

Dose: 1 mg/kg

Area of application: worker

Route of exposure: dermal, long-term

Effect on health: systemic effects

Dose: 0,2 mg/kg

Area of application: worker

Route of exposure: inhaling, acute

Effect on health: systemic effects

Dose: 0,07 mg/m³ .

Area of application: worker

Route of exposure: inhaling, long-term

Effect on health: systemic effects

Dose: 0,01 mg/m³ .

Area of application: population

Route of exposure: skin contact

Effect on health: systemic effects

Dose: 0,5 mg/kg

Area of application: population

Route of exposure: dermal, long-term

Effect on health: systemic effects

Dose: 0,08 mg/kg

Area of application: population

Route of exposure: inhaling, acute

Effect on health: systemic effects

Dose: 0,02 mg/m³ .

Area of application: population

Route of exposure: inhaling, long-term

Effect on health: systemic effects

Dose: 0,003 mg/m³ .

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Area of application: population

Route of exposure: oral

Effect on health: systemic effects

Dose: 0,01 mg/kg

Area of application: population

Route of exposure: oral, long-term

Effect on health: systemic effects

Dose: 0,002 mg/kg

PNEC values:

Freshwater: 0,000463 mg/l

Seawater: 0,0463 µg/l

Intermittent release: 0,00463 mg/l

Freshwater sediment: 0,05 mg/kg

Ground: 0,0407 mg/kg

Purification plant: 100 mg/l

Freshwater sediment: 0,005 mg/kg

8.2 Exposure controls / personal protection**General protective and hygiene measures:**

Do not eat, drink, smoke or sniff in workplace areas.

Keep away from food, drink and animal feeding stuff.

Immediately take off soiled, contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Respiratory protection:

not required

Hand protection:

Protective gloves

Glove material

Nitrile-impregnated cotton gloves

The selection of suitable gloves not only depends on the material, but also on further quality factors and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has to be checked before use.

Eye protection:

Tight sealing safety goggles

Section 9 Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance: colourless liquid

Odour: specific

Odour threshold: unknown

pH: unknown

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Melting point/freeze point:	unknown
Initial boiling point and boiling range:	unknown
Flash point:	unknown
Evaporation rate:	unknown
Combustibility (solid, gaseous):	not classified as combustible
Upper/lower combustibility or explosion limit:	not potentially explosive
Vapour pressure:	unknown
Vapour density:	unknown
Relative density:	1,05 ± 0,05 g/cm ³
Solubility:	unknown
n-octanol partition coefficient water (log):	unknown
Self-ignition temperature:	unknown
Decomposition temperature:	not applicable
Viscosity:	200 ± 100 mPas
Explosive properties:	not applicable
Oxidizing properties:	unknown

9.2 Other information

No further relevant information available.

Section 10 Stability and reactivity**10.1 Reactivity**

No relevant information available.

10.2 Chemical stability

No decomposition if used according to specification.

10.3 Possibility of hazardous reactions

Reacts with isocyanates under heat development.

10.4 Conditions to avoid

No relevant information available.

10.5 Incompatible materials

No relevant information available.

10.6 Hazardous decomposition products

No available data on hazardous decomposition products.

Section 11 Toxicological information**11.1 Information on toxicological effects**Acute toxicity:Oral: ATE mix= 4 985 mg/kg (classification criteria are not met 300 mg/kg < ATE mix ≤ 2000 mg/kg)

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Tris(2chloro-1-methylethyl)-phosphate:

LD50 (rat, oral) 1 230 mg/kg

Potassium 2-Ethylhexanoate Hydrate :

Estimated value acute toxicity (calculation procedure) 2 000 mg/kg

Ethandiol:

LD50 (rat- male, female; oral) 7112 mg/kg

LD50 (rat- male, female, inhalation) 2,5 mg/l

LD50 (rat- male, female, dermal) 3500 mg/kg

Dibutyl tin dilaurate:

LD50 (rat- male, female; oral) 2071 mg/kg (method: OECD 401)

LD50 (rat- male, female, dermal) >2000 mg/kg

Skin corrosivity / irritation:

tris(2-chloro-1-methylethyl) phosphate:

Irritates the skin.

Dibutyl tin dilaurate: corrosive

Severe eye damage / irritation:

tris(2-chloro-1-methylethyl) phosphate:

Irritates the eyes.

Dibutyl tin dilaurate: irritating (rat, method: OECD 405)

Sensitization of the respiratory system / skin:

Dibutyl tin dilaurate: sensitizing (guinea pig, method OECD 406)

Germ-cell mutagenicity:

Dibutyl tin dilaurate: In-vitro tests have shown mutagenic effects, in-vivo tests have shown mutagenic effects.

Ethandiol:

Experimental animal studies have shown no negative effects on reproduction.

NOAEC, rat. Toxicity in the dam (inhalation, aerosol) 150 mg/m³NOAEC, toxic effects on the progeny (growth) (inhalation aerosol)
150 mg/m³

NOAEC, rat. Toxicity in the dam (oral) 1 000 mg/kg bodyweight

NOAEC, growth toxicity 500 mg/m³Carcinogenicity:

Based on the analysis of the components – not found

Reproduction toxicity:

Based on the analysis of the components – not found

Dibutyl tin dilaurate: May affect reproductiveness.

May cause harm to the unborn child.

Effect of the organ toxicity – single exposition:

Dibutyl tin dilaurate:

Repeat dose (oral) NOEL: 0,3 mg/kg

Harms the thymus.

Effect of organ toxicity – repeated exposition:

Harms the thymus.

Danger of aspiration:

Based on the analysis of the components – not found

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Section 12 Ecological information**12.1 Toxicity:**Ethandiol:

- Fish

Pimephales promelas LC50 (96h): 72860 mg/l

Lepomis macrochirus LC50 (96h): 85 mg/l

Method OECD Test Directive 203

- Plankton

Daphnia magna EC50 (48h) 13900-57600 mg/l

Method OECD Test Directive 202

- Algae:

Pseudokirchnerella subcapitata EC50 (96h) 6500 - 13000 mg/l

Method OECD Test Directive 201

- Bacteria:

Pseudomonas putida TTC (16h) > 10000 mg/l

Activated sludge of purification plants: EC20 (0,5h) > 1995 mg/l

Acute toxicity:

- Fish NOEC 15380 mg/l/7 days

- Daphnia NOEC 8590 mg/l/7 days

Dibutyl tin dilaurate:

- Fish

Zebrafish LC50 3,1 mg/l (Method OECD 203)

- Plankton

Daphnia magna EC50 (48h)

Chronic ecotoxicity for daphnia: EC50 (48h) 463 µg/l (method OECD 202)

- Algae

Desmodesmus subspicatus EC50 (72h) >1 mg/l (Method OECD 201)

12.2 Persistence and Degradability:

If the substances penetrate into the soil, they may seep into the groundwater, due to their water solubility.

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:

No further relevant information available.

12.6 Other adverse effects:

No further relevant information available.

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Section 13 Disposal considerations**13.1 Waste treatment methods**

The generation of waste should be avoided as far as possible, or reduced to a minimum. Disposal has to be effected in accordance with the local or national regulatory requirements (Waste Act). Untreated materials are not suitable for the disposal. Do not (not even in small quantities) empty into drains or allow to reach sewer systems or water courses. Empty packaging has to be disposed of through an authorised waste disposal company.

Section 14 Transport information**14.1 UN-Number**

ADR, ADN, IMDG, IATA

not relevant

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

not relevant

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA class

not relevant

14.4 Packing group

ADR, IMDG, IATA

not relevant

14.5 Environmental hazards

Marine pollutant

not relevant

14.6 Special precautions for user

not relevant

Section 15 Regulatory information**15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture**

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (UEL 136 of 29 May 2007)
2. Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (U.L 133 of 31 May 2010).
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, an amending Regulation (EC) No 1907/2006

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

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Section 16 Other information

All values and information supplied are based on our current knowledge. They do not constitute a legally binding assurance of specific product properties or justify a contractual legal relationship.

Full wording of hazard statements, if indicated in Sections 2 or 3

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
P372	Explosion risk in case of fire.
P373	DO NOT fight fire when fires reaches explosives.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.
Acute Tox 4	Acute toxicity (oral), hazard category 4
Skin Corr. 1 C	Skin Corrosion / irritation, hazard category 1A, 1B, 1C
Eye Dam. 1	Serious eye damage, hazard category 1
Skin Irrit. 2	Skin irritation, hazard category 2
Eye Irrit. 2	Eye irritation, hazard category 2
Skin sens. 1	Skin sensitization, hazard category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, hazard category chronic 1
Aquatic Acute 1	Hazardous to the aquatic environment, hazard category acute 1
Muta 2	Germ cell mutagenicity, hazard category 2
Repr. 1 B	Reproductive toxicity, hazard category 1 B
Repr. 2	Reproductive toxicity, hazard category 2
STOT RE 1	Specific target organ toxicity, repeated exposure hazard category 1
STOT RE 2	Specific target organ toxicity, repeated exposure hazard category 2
STOT SE 1	Specific target organ toxicity, repeated exposure hazard category 1



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Abbreviations and acronyms:

ADR/RID	European Agreements on the Transport of Dangerous Goods by Road/Railway
BGR	Berufsgenossenschaftliche Regel für die Sicherheit und Gesundheit (Trade Association Health and Safety at Work Rules)
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
EC	Effective Concentration (median effective concentration)
IATA	International Air Transport Association
IMDG	International Agreement on the Maritime Transport of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) 1907/2006)
SDB	Safety Data Sheet
STOT	Specific Target Organ Toxicity (spezifische Zielorgantoxizität)
TRGS	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
VCI	Verband der Chemischen Industrie e.V. (Association of the Chemical Industry)
vPvB	Very Persistent, very Bioaccumulative
VwVwS	Verwaltungsvorschrift wassergefährdende Stoffe (Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes)