

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ACS3000 plus (All Coating System Third Century)**

Revision date: 16.09.2019

Product code: TT-001

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

ACS3000 plus (All Coating System Third Century)

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

coating

**Uses advised against**

Only use for the intended purpose.

**1.3. Details of the supplier of the safety data sheet**

Company name:	ACS Advanced Coating Solutions AG	
Street:	Ladestr. 2	
Place:	D-66849 Landstuhl	
Telephone:	+49 (0)6371 9162000	Telefax: +49 (0)6371 6794127
Contact person:	Norbert Staab	
e-mail:	info@acs.ag	

**1.4. Emergency telephone number:**

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service.

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

Hazard categories:

Flammable liquid: Flam. Liq. 2

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

n-butyl acetate

Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine

3-aminopropyltriethoxysilane

**Signal word:** Danger

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**Pictograms:****Hazard statements**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Polysilazane in solvent and additives < 2%

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#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
123-86-4	n-butyl acetate			60 - <80 %
	204-658-1	607-025-00-1	01-2119485493-29	
	Flam. Liq. 3, STOT SE 3; H226 H336 EUH066			
475645-84-2	Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine			30 - <50 %
	Flam. Liq. 2, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 3; H225 H302 H314 H318 H412			
919-30-2	3-aminopropyltriethoxysilane			5 - <10 %
	213-048-4	612-108-00-0		
	Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1; H302 H314 H317			
108-88-3	toluene			<1 %
	203-625-9	601-021-00-3	01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304			

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove contaminated, saturated clothing immediately. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. Call a physician immediately. No direct artificial respiration to be given by first aider.

#### After contact with skin

After contact with skin, wash immediately with: Polyethylene glykol 400. Water.  
Call a physician immediately.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth, spit liquid again. Do NOT induce vomiting. Call a physician immediately.

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

Following inhalation: Headache. Coughing.

After skin contact: Causes severe burns. Irritation and reddening. Allergic reactions.

Harmful if swallowed.

May cause drowsiness or dizziness.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam.  
Co-ordinate fire-fighting measures to the fire surroundings.

#### **Unsuitable extinguishing media**

Water.

### 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide (SiO<sub>2</sub>).

### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.  
Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional information**

Do not allow to enter into surface water or drains. Contaminated fire-fighting water must be collected separately. Remove according to the regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.  
Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Personal protection equipment: see section 8  
Handling and storage: see section 7  
For waste disposal see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations. Do not get in eyes, on skin, or on clothing. Wear personal protection equipment.

#### **Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.  
Provide earthing of containers, equipment, pumps and ventilation facilities.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Requirements for storage rooms and vessels**

Store only in original container. Open the container at periodic intervals in order to release any pressure that may arise (ammonia).  
Store in a cool dry place.

#### **Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

#### **Further information on storage conditions**

Protect from sunlight and heat sources. Avoid ignition sources.  
Protect against: UV-radiation/sunlight. Heat. moisture. frost.

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Recommended storage temperature: &lt;25°C

### 7.3. Specific end use(s)

coating

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
123-86-4	n-butyl acetate			
	Consumer DNEL, acute	inhalation		859,7 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation		102,34 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation		960 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation		480 mg/m <sup>3</sup>

#### PNEC values

CAS No	Substance	Value
	Environmental compartment	
123-86-4	n-butyl acetate	
	Freshwater	0,18 mg/l
	Marine water	0,018 mg/l
	Freshwater sediment	0,981 mg/kg
	Marine sediment	0,0981 mg/kg
	Micro-organisms in sewage treatment plants (STP)	35,6 mg/l
	Soil	0,0903 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

Ensure adequate ventilation.

#### Protective and hygiene measures

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

#### Eye/face protection

Eye glasses with side protection (DIN EN 166)

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#### Hand protection

Tested protective gloves must be worn.

By short-term hand contact:

Suitable material: Butyl rubber. (Thickness of glove material: >0,5mm / Breakthrough time >=480 minutes / penetration time (maximum wearing period): ~120 minutes)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

Required properties: antistatic. flame-retardant.

Category 3, Type 3 Liquid-tight / Category 3, Type 4 Spray-tight

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Combination filtering device (EN 14387): A2 B2 E2 K2 Hg/P3

### SECTION 9: Physical and chemical properties

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

Physical state:	liquid	
Colour:	colourless	
Odour:	like: Ammonia.	
pH-Value:		not applicable
<b>Changes in the physical state</b>		
Melting point:		125 °C
Initial boiling point and boiling range:		not applicable
Flash point:		16 °C
<b>Flammability</b>		
Solid:		not determined
Gas:		not determined
<b>Explosive properties</b>		
		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Ignition temperature:		435 °C
<b>Auto-ignition temperature</b>		
Solid:		not determined
Gas:		not determined
Decomposition temperature:		not determined
<b>Oxidizing properties</b>		
		not determined
Vapour pressure:		not determined
Density (at 20 °C):		0,92 g/cm <sup>3</sup>
Water solubility:		Reacts with: Water.
Partition coefficient:		not determined
Viscosity / dynamic:		not determined

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Viscosity / kinematic:	not determined
Vapour density:	not determined
Solvent separation test:	not determined

### **9.2. Other information**

Solid content: not determined

No further information available.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

The product is rapidly hydrolyzed in the presence of water to: hydrogen, ammonia, siloxanes.

### **10.2. Chemical stability**

The product is rapidly hydrolyzed in the presence of water to: hydrogen, ammonia, siloxanes.

### **10.3. Possibility of hazardous reactions**

Reacts vigorously with water, including moisture in the air.

Reacts with: Alcohol. amines. Oxidizing agents. Base. acid. halogenated compound.

Hazardous decomposition products: Ammonia.

### **10.4. Conditions to avoid**

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Protect against heat and direct solar irradiation. Protect from moisture.

### **10.5. Incompatible materials**

Oxidizing agents, strong. Reducing agent, strong acid, concentrated. Alkalis (alkalis), concentrated. Water. Ethanol.

### **10.6. Hazardous decomposition products**

Hydrogen. Ammonia.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute toxicity**

Harmful if swallowed.

#### **ATEmix calculated**

ATE (oral) 947,0 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	13100	Rat	
	dermal	LD50 mg/kg	>17600	Rabbit	
	inhalation (4 h) vapour	LC50	>21 mg/l	Rat	
475645-84-2	Cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine				
	oral	ATE mg/kg	500		
919-30-2	3-aminopropyltriethoxysilane				
	oral	LD50 mg/kg	1780	Rat	RTECS
	dermal	LD50 mg/kg	3800	Rabbit	RTECS
108-88-3	toluene				
	oral	LD50 mg/kg	5300- 5910	Rat	
	dermal	LD50 mg/kg	12200	Rabbit	
	inhalation (4 h) vapour	LC50	28,1 mg/l	Rat	

#### **Irritation and corrosivity**

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### **Sensitising effects**

May cause an allergic skin reaction. (3-aminopropyltriethoxysilane)

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

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

#### **STOT-single exposure**

May cause drowsiness or dizziness. (n-butyl acetate)

#### **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.

#### **Practical experience**

#### **Other observations**

Has degreasing effect on the skin.

## SECTION 12: Ecological information

### **12.1. Toxicity**

Harmful to aquatic life with long lasting effects.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50	62 mg/l	96 h	Leuciscus idus (golden orfe)	
	Acute algae toxicity	ErC50	674 mg/l	72 h	Scenedesmus subspicatus	
919-30-2	3-aminopropyltriethoxysilane					
	Acute algae toxicity	ErC50	603 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	331 mg/l	48 h	Daphnia magna	
108-88-3	toluene					
	Acute fish toxicity	LC50	24 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	11,5 mg/l	48 h	Daphnia magna	

#### **12.2. Persistence and degradability**

No data available.

#### **12.3. Bioaccumulative potential**

No data available.

#### **Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
919-30-2	3-aminopropyltriethoxysilane	0,31
108-88-3	toluene	2,73

#### **12.4. Mobility in soil**

No data available.

#### **12.5. Results of PBT and vPvB assessment**

The components in this mixture do not meet the criteria for classification as PBT or vPvB.

#### **12.6. Other adverse effects**

No data available.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Do not mix with aqueous waste or waste containing protic substances.

Disposal according to official regulations. Consult the local waste disposal expert about waste disposal.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Do not allow to enter into surface water or drains. Contaminated fire-fighting water must be collected separately.

##### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

#### **Land transport (ADR/RID)**

##### **14.1. UN number:**

UN 2924

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**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3+8



Classification code: FC

Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

Transport category: 2

Hazard No: 338

Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 2924

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3+8



Classification code: FC

Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number:** UN 2924

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transport hazard class(es):** 3

**14.4. Packing group:** II

Hazard label: 3+8



Special Provisions: 274

Limited quantity: 1 L

Excepted quantity: E2

EmS: F-E, S-C

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 2924

**14.2. UN proper shipping name:** FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transport hazard class(es):** 3

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### 14.4. Packing group:

II

Hazard label:

3+8



Special Provisions:

A3

Limited quantity Passenger:

0.5 L

Passenger LQ:

Y340

Excepted quantity:

E2

IATA-packing instructions - Passenger:

352

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

363

IATA-max. quantity - Cargo:

5 L

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

no

### 14.6. Special precautions for user

No special precautions known.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

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

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3: 3-aminopropyltriethoxysilane

Entry 48: toluene

#### Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

Regulation (EC) No. 648/2004 (Detergents regulation): not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: This mix contains no chemicals that are subject to the export notification procedures (annex 1).

This mixture contains the following substances of very high concern (SVHC) which are included in the

Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

2 - clearly water contaminating

#### Additional information

Observe in addition any national regulations!

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

n-butyl acetate

toluene

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**SECTION 16: Other information****Changes**

Version 1,00 - Creation - 11.06.2019

Version 1,01 - General update - 16.09.2019

**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)

BlmSchV (Fed.Imm.Prot.Act): Directive on the Implementation of the Federal Immission Protection Act

CAS: Chemical Abstracts Service

DIN: Norm of the Deutsche Institut für Normung (German Institute for Standardization)

EC: Effective Concentration

EG: European Community (Europäische Gemeinschaft)

EN: European Norm

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of ships carrying Dangerous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm of the International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Octanol/water partition coefficient

MARPOL: Maritime Pollution Convention = Convention for the Prevention of Maritime Pollution from Ships

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, bio-cumulative, toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bio-cumulative

VwVwS: Administrative Regulation for Water Pollutants

WGK: German Water Hazard Class

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

TLV: Threshold Limiting Value

STOT: Specific Target Organ Toxicity

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H302	Calculation method
Skin Corr. 1B; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 3; H412	Calculation method

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**Relevant H and EUH statements (number and full text)**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

**Further Information**

The information given in this safety data sheet is to describe the product's safety regulations. It is not for guaranteeing certain characteristics and is based on today's knowledge. The safety data sheet was generated upon information of pre-suppliers by:

asseso AG, Frohsinnstraße 28, 63739 Aschaffenburg, Germany

Phone: +49 (0)6021 - 1 50 86-0, Fax: +49 (0)6021 - 1 50 86-77, E-Mail: eu-sds@asseso.eu, www.asseso.eu

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*