

**Safety Data Sheet**

in accordance with Regulation (EC) No 1907 -2006

**ACS3000**

Revised: 08/22/2023

Material number: TT-001

Page 1 from

**SECTION 1: Name of the substance or mixture and of the undertaking****1.1. Product Identifier**

ACS3000 Yacht Keramik seal

**1.2. Relevant identified uses of the substance or mixture and uses that are not recommended****Use of the substance/mixture**

Coating

**Uses that are discouraged**

Use only for its intended purpose.

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

Company name:	ACS3000 coatings GmbH	
Street:	Beindersheimer Str. 55	
Place:	D-67227 Frankenthal	
Phone: Contact:	+49 (0)6233 3759261	Fax:+49 (0)
	Norbert Staab	

Email:	info@acs3000.com
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<b>1.4. Emergency number:</b>	Poison Control Center (Mainz, DE): +49 (0)6131 - 19240 (24h)
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**SECTION 2: Possible hazards****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Hazard categories:

Flammable liquids: Entz. Fl. 2 Acute

toxicity: Acute tox. 4

Corrosive/irritant effect on the skin: skin etching. 1B

Severe eye damage/eye irritation: Eye damage. 1 Respiratory/skin

sensitization: Sens. Skin 1

Specific target organ toxicity (single exposure): STOT einm. 3 Hazardous

to water: Aqu. Chron. 3

Warnings:

Liquid and vapor highly flammable.

Harmful if swallowed.

Causes severe skin burns and severe eye damage. Causes severe eye damage.

May cause allergic skin reactions. May cause

drowsiness and drowsiness.

Harmful to aquatic organisms, with long-term effects.

**2.2. Regulation (EC) No****1272/2008****Hazard-determining components for labeling**

n-Butyl acetate

Cyclosilazanes, di-methyl-, methylhydrogen-, polymers with di-methyl-, methylhydrogensilazanes, reaction products with 3-(triethoxysilyl)-1-propanamine

3-Aminopropyltriethoxysilane

**Signal word:** Danger

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**Pictograms:****Warnings**

H225	Liquid and Steam highly flammable.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and severe eye damage. H317	May
	cause allergic skin reactions.	
H336	Can Cause drowsiness and drowsiness.	
H412	Harmful for aquatic organisms, with long-term effects.	

**Safety**

P102	Keep out of reach of children.
P103	Read the label before use.
P210	From heat, hot surfaces, Keep away sparks, open flames and other sources of ignition. Do not smoke.
P260	Dust/Smoke/Gas/Mist/Vapor/Aerosol Do not inhale.
P264	After Use: Wash hands and face thoroughly.
P280	Wear protective gloves/clothing/eye protection/face protection. P301+P330+P331
P303+P361+P353	AT SWALLOWING: Rinse mouth. DO NOT induce vomiting. AT CONTACT WITH SKIN (or hair): Remove all contaminated clothing immediately. Wash skin with water or take a shower.
P304+P340	AT INHALATION: Bring the person to fresh air and ensure unobstructed breathing.
P305+P351+P338	AT CONTACT WITH EYES: Rinse gently with water for a few minutes. Remove any contact lenses if possible. Continue rinsing.
P310	Call POISON CONTROL CENTER/doctor immediately.
P501	Contents/container to an appropriate recycling or disposal facility.

**2.3. Other hazards**

The ingredients 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 solvents and additives < 2%

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## Hazardous ingredients

CAS No.	Designation			Share
	EC No.	Index No.	REACH-No.	
	GHS Rating			
123-86-4	n-Butyl acetate			70 to <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-methyl-, methylhydrogen-, polymers with di-methyl-, methylhydrogensilazanes, reaction products with 3-(triethoxysilyl)-1-propanamine			25- <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-Aminopropyltriethoxysilan			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			

For the wording of H and EUH phrases, see Section 16.

## SECTION 4: First Aid Measures

## 4.1. Description of first aid measures General

## information

First responders: Pay attention to self-protection! Remove soiled, soaked clothing immediately. In the event of an accident or feeling unwell, consult a doctor immediately (if possible, show operating instructions or safety data sheet).

## After inhalation

Take those affected out into the fresh air and keep them warm and calm. Consult a doctor immediately. No direct breath donation by the first responder.

## After skin contact

In case of contact with skin, wash immediately with: Polyethylene glycol 400. Water. Consult a doctor immediately.

## After eye contact

In case of contact with eyes, rinse immediately with the eyelid gap open with running water for 10 to 15 minutes and consult an ophthalmologist. Remove any contact lenses if possible. Continue rinsing.

## After ingestion

Rinse your mouth, spit out the liquid again. DO NOT induce vomiting. Consult a doctor immediately.

## 4.2. Main acute and delayed symptoms and effects

After inhalation: headache. Cough.

After skin contact: Causes severe chemical burns. Redness and irritation. Allergic reactions. Harmful if swallowed.

May cause drowsiness and drowsiness.

Prolonged or repeated skin contact can have a degreasing effect and lead to dermatitis.

## 4.3. Indications of immediate medical assistance or special treatment

Symptomatic treatment.

## SECTION 5: Fire-fighting measures

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### 5.1. Extinguishing agent

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**Suitable extinguishing agents**

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing agent. alcohol-resistant foam.  
Tailor extinguishing measures to the environment.

**Unsuitable extinguishing agents**

Water.

**5.2. Specific hazards posed by the substance or mixture**

In the event of a fire, the following can be produced: nitrogen oxides (NO<sub>x</sub>). Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Silicon dioxide (SiO<sub>2</sub>).

**5.3. Indications for firefighting**

Tailor extinguishing measures to the environment.  
Wear an ambient air-independent respirator and chemical protective suit.

**Additional Notes**

Do not allow to enter the sewer system or water bodies. Collect contaminated extinguishing water separately.  
Eliminate in compliance with official regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and procedures to be followed in case of emergency**

Bring people to safety. Remove all ignition sources. Ventilate the affected area.  
Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

**6.2. Environmental protection**

Do not allow to enter the sewer system or water bodies. Do not allow to get underground/soil.

**6.3. Methods and material for retention and cleaning**

Pick up with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder). Collect in suitable, closed containers and take to disposal. Thoroughly clean dirty objects and floors in compliance with environmental regulations.

**6.4. Reference to other sections**

Personal protective equipment: see section 8  
Handling and storage: see section 7 Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Protective measures for safe handling****Instructions for safe handling**

Do not inhale gas/smoke/vapor/aerosol. For adequate ventilation and punctual extraction critical points. Do not allow to get into the eyes, skin or clothing. Wear personal protective equipment.

**Notes on fire and explosion protection**

Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charges. Provide grounding of containers, apparatus, pumps and extraction devices.

**7.2. Conditions for safe storage, taking into account incompatibilities****Requirements for storage rooms and containers**

Store only in the original container. Open the container regularly to release any pressure (ammonia) that has arisen. Store in a cool, dry place.

**Storage Instructions**

Keep away from food, beverages and feed.

**Further information on storage conditions**

Protect from sunlight and heat sources. Avoid ignition sources. Protect against: UV radiation/sunlight. Heat. Humidity. Frost.  
Recommended storage temperature: <25°C

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Storage class according to TRGS 510:

3 (Flammable liquids)

**7.3. Specific end-use applications**

Coating

**SECTION 8: Exposure limitation and monitoring/Personal protective equipment****8.1. Parameters to be monitored :****Occupational exposure limit**

CAS No. (TRGS 900)	Designation	Ppm	mg/m <sup>3</sup>	F/m <sup>3</sup>	Spitzenbegr.	Art
108-88-3	Toluene	50	190		4(II)	
123-86-4	n-Butylacetat	62	300		2(I)	

**Biological limit values (TRGS 903)**

CAS No.	Designation	Parameter	Limit	Subs.- material	Samples.- Time
108-88-3	Toluene	o-cresol (after hydrolysis)	1.5 mg/l	U	b,c

**DNEL/DMEL values**

CAS No.	Designation	DNEL Type	Route of exposure	Effect	Value
123-86-4	n-Butylacetat	Consumer DNEL, acute	inhalativ		859,7 mg/m <sup>3</sup>
		Consumer DNEL, long-term	inhalativ		102,34 mg/m <sup>3</sup>
		Employee DNEL, acute	inhalativ		960 mg/m <sup>3</sup>
		Employee DNEL, long-term	inhalativ		480 mg/m <sup>3</sup>

**PNEC values**

CAS No.	Designation	Umweltkompartiment	Value
123-86-4	n-Butylacetat	Fresh water	0.18 mg/l
		Seawater	0.018 mg/l
		Freshwater sediment	0.981 mg/kg
		Marine sediment	0.0981 mg/kg
		Microorganisms in sewage treatment plants	35.6 mg/l
		Soil	0.0903 mg/kg

**8.2. Limitation and monitoring of exposure**

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#### **Suitable technical control equipment**

Adequate ventilation must be ensured.

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**Protection and hygiene measures**

Avoid contact with skin, eyes and clothing. Remove soiled, soaked clothing immediately. Preventive skin protection with skin protection ointment. Wash hands and face after work. Do not eat and drink at work.

**Eye/face protection**

Gestellbrille mit Seitenschutz (DIN EN 166)

**Guard**

Tested protective gloves must be worn. In case of short-term hand contact:

Suitable material: butyl rubber. (Thickness of glove material: >0.5mm / breakthrough time  $\geq$ 480 minutes / penetration time (maximum wearing time): ~120 minutes)

When handling chemical agents, only chemical protective gloves with CE marking including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace, depending on the concentration and quantity of hazardous substances. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

**Body armor**

Wear appropriate protective clothing when working.

Required properties: antistatic. Flame retardant.

Category 3, Type 3 Liquid Tight / Category 3, Type 4 Spray Tight

**Respiratory**

In case of insufficient ventilation, wear respiratory protection. Combination filter unit (EN 14387): A2 B2 E2 K2 Hg/P3

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical condition: liquid  
 Color: colorle  
 Smell: ss  
 after: ammonia.

pH: not applicable

**State**

Melting point: Not determined

Initial boiling point and boiling

range: Flash point:

**Flammability**

Solid:

Gas:

**Explosion hazards**

Not determined

Lower explosion limit: Upper

explosion limit:

Ignition temperature:

**Autoignition temperature**

Solid:

Gas: Decomposition

temperature:

**Incendiary properties**



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1 finite not definite

2  
5 435 °C

C not definite not  
n definite

o Not determined

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Vapor pressure:	Not determined
Density (at 20 °C):	0,92 g/cm <sup>3</sup>
Solubility in water:	Reacts with: water.
Distribution coefficient:	not certain
Dyn. Viscosity:	not certain
Kin. Viscosity:	not certain
Vapor density:	not certain
Solvent separation test:	not definite not

**9.2. Other disclosures**

Solids content:	definite
No further data available.	

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product hydrolyzes in the presence of water to: hydrogen, ammonia, siloxanes.

**10.2. Chemical stability**

The product hydrolyzes in the presence of water to: hydrogen, ammonia, siloxanes.

**10.3. Possibility of dangerous reactions**

Reacts violently with water, including moisture in the air.

Reacts with: Alcohol. Amines. Oxidizing agent. Base. Acid. halogenated compounds.

Hazardous decomposition products: ammonia.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Oxidizing agent, strong. Reducing agent, strong acidity, 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.	Designation				
	Route of exposure	Dose	Species	Those	Method
123-86-4	n-Butylacetat				
	oral	LD50 mg/kg 13100	Rat		
	dermal	LD50 mg/kg >17600	Rabbit		
	inhalation (4 h) steam	LC50 >21 mg/l	Rat		
475645-84-2	Cyclosilazanes, di-methyl-, methylhydrogen-, polymers with di-methyl-, methylhydrogensilazanes, reaction products with 3-(triethoxysilyl)-1-propanamine				
	oral	ATE mg/kg 500			
919-30-2	3-Aminopropyltriethoxysilan				
	oral	LD50 mg/kg 1780	Rat	RTECS	
	dermal	LD50 mg/kg 3800	Rabbit	RTECS	
108-88-3	Toluene				
	oral	LD50 5300- 5910 mg/kg	Rat		
	dermal	LD50 mg/kg 12200	Rabbit		
	inhalation (4 h) steam	LC50 28,1 mg/l	Rat		

**Irritation and corrosive effect**

Causes severe skin burns and severe eye damage. Causes severe eye damage.

**Sensitizing effects**

May cause allergic skin reactions. (3-Aminopropyltriethoxysilane)

**Carcinogenic, mutagenic and reprotoxic effects**

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

**Specific Target Organ Toxicity for Single Exposure**

May cause drowsiness and drowsiness. (n-butyl acetate)

**Specific Target Organ Repeated Exposure Toxicity**

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

**Aspiration hazard**

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

**Practical experience****Other observations**

Has a degreasing effect on the skin.

**SECTION 12: Environmental information****12.1. Toxicity**

Harmful to aquatic organisms, with long-term effects.

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CAS No.	Designation					
	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 (Goldorfe)		
	Acute algen toxicity	ErC50 674 mg/l	72 hrs	Scenedesmus subspicatus		
919-30-2	3-Aminopropyltriethoxysilan					
	Acute algen toxicity	ErC50 603 mg/l	72 hrs	Desmodesmus subspicatus		
	Acute crustaceatotoxicity	EC50 331 mg/l	48 h	Daphnia magna		
108-88-3	Toluene					
	Acute fish toxicity	LC50 24 mg/l	96 h	Oncorhynchus mykiss (Regenbogenforelle)		
	Acute crustaceatotoxicity	EC50 11.5 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

No data available.

**12.3. Bioakkumulationspotenzial**

No data available.

**Partition coefficient n-octanol/water**

CAS No.	Designation	Log Pow
919-30-2	3-Aminopropyltriethoxysilane	0,31
108-88-3	Toluene	2,73

**12.4. Mobility in the soil**

No data available.

**12.5. PBT and vPvB assessment results**

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

**12.6. Other adverse effects**

No data available.

**SECTION 13: Notes on disposal****13.1. Waste treatment methods****Recommendation**

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

Disposal in accordance with official regulations. For waste disposal, contact the responsible licensed waste disposal company. The assignment of the waste code numbers/waste designations must be carried out in accordance with the AVV on an industry- and process-specific basis.

Do not allow to enter the sewer system or water bodies. Collect contaminated extinguishing water separately.

**Disposal of uncleaned packaging and recommended cleaning agents**

Uncontaminated and empty packaging can be recycled. Contaminated packaging must be treated in the same way as the substance.

**SECTION 14: Transport details****Land transport (ADR/RID)****14.1. UN number:**

UN 2924

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**14.2. Proper UN shipping designation:**

FLAMMABLE LIQUID MATERIAL, CORROSIVE, N.A.G. (organic Polysilazanverbindung, n-Butylacetat)

**14.3. Transport hazard classes:**

3

**14.4. Verpackungsgruppe:**

II

Hazard label:

3+8



Klassifizierungscode:

FC

Special regulations:

274

Limited Quantity (LQ):

1 L

Optional quantity:

E2

Beförderungskategorie:

2

Gefahrnummer:

338

Tunnelbeschränkungscode:

D/E

**Binnenschiffstransport (ADN)****14.1. UN Number:**

UN 2924

**14.2. Proper UN shipping designation:**

FLAMMABLE LIQUID MATERIAL, CORROSIVE, N.A.G. (organic Polysilazanverbindung, n-Butylacetat)

**14.3. Transportgefahrenklassen:**

3

**14.4. Verpackungsgruppe:**

II

Hazard label:

3+8



Classification code:

FC

Special regulations:

274

Limited Quantity (LQ):

1 L

Optional quantity:

E2

**Seeschiffstransport (IMDG)****14.1. UN Number:**

UN 2924

**14.2. Proper UN shipping designation:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transportgefahrenklassen:**

3

**14.4. Verpackungsgruppe:**

II

Hazard label:

3+8



Special regulations:

274

Limited Quantity (LQ):

1 L

Optional quantity:

E2

EmS:

F-E, S-C

**Lufttransport (ICAO-TI/IATA-DGR)****14.1. UN Number:**

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**14.2. Proper UN shipping designation:**

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (organic polysilazane compound, n-butyl acetate)

**14.3. Transportgefahrenklassen:**

3

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**14.4. Verpackungsgruppe:**

II

Hazard label:

3+8



Special regulations:

A3

Limited Quantity (LQ) Passenger:

0.5 L

Passenger LQ:

Y340

Optional quantity:

E2

IATA-Verpackungsanweisung - Passenger:

352

IATA-Maximale Menge - Passenger:

1 L

IATA-Verpackungsanweisung - Cargo:

363

IATA-Maximale Menge - Cargo:

5 L

**14.5. Environmental hazards**

HAZARDOUS TO THE ENVIRONMENT: no

**14.6. Special precautions for the user**

No special precautions are known.

**14.7. Bulk transport in accordance with Annex II of the MARPOL Convention and in accordance with the IBC****Code**

not applicable

**SECTION 15: Legislation****15.1. Safety, health and environmental protection rules/specific legislation for the substance or mixture****EU rules**

Restriction of use (REACH, Annex XVII): Entry 3: 3-

Aminopropyltriethoxysilane

Entry 48: Toluene

**Additional Notes**

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: not applicable Regulation (EC) No 648/2004 on detergents: 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 on the export and import of hazardous chemicals: This mixture does not contain any chemicals subject to the export notification procedure (Annex I).

The mixture contains the following substances of very high concern (SVHC), which are included in the Candidate List according to REACH, Article 59: none/none

The mixture contains the following substances of very high concern (SVHC), which are subject to authorisation in accordance with REACH, Annex XIV: none/none

**National rules**

Employment restriction:

Observe employment restrictions for young people (§ 22 JArbSchG).

Observe employment restrictions for expectant and breastfeeding mothers (§§ 11 and 12 MuSchG).

Water hazard class: Status:

2 - clearly hazardous to water

**Additional Notes**

Classification of mixtures according to Annex 1, No. 5 AwSV

The national legislation must also be observed!

**15.2. Chemical safety assessment**

A chemical safety assessment was carried out for the following substances in this mixture:

n-butyl acetate

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Toluene

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

Version 1.00 - First created - 11.06.2019

Version 1.01 - General Revision - 09/16/2019, Version 1.02 General Revision 08/22/2023

**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) BImSchV:

Ordinance on the Implementation of the Federal Immission Control Act

CAS: Chemical Abstracts Service

DIN: Standard of the German Institute for

Standardization EC: Effective concentration

EC: European Community EN:

European Standard

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipping of Ships for the Transport of Hazardous Chemicals in Bulk

ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods

ISO: Norm der International Standards Organization

CLP: Classification, Labeling, Packaging

IUCLID: International Uniform Chemical Information Database

LC: Lethal concentration

LD: Lethal dose

log Kow: Partition coefficient between octanol and water

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

OECD: Organisation for Economic Co-operation and Development

PBT: Persistent, biakkummulierbar, toxisch

RID: Regulations for the International Carriage of Dangerous Goods by Rail TRGS:

Technical Rules for Hazardous Substances

UN: United Nations (Vereinte Nationen)

VOC: Volatile Organic Compounds (volatile organic compounds) vPvB:

very persistent and very bioaccumulative

VwVwS: Administrative regulation of water-polluting

substances WGK: 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



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**Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP]**

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

**Text of the H and EUH phrases (number and full text)**

H225	Liquid and vapor highly flammable.
H226	Liquid and vapor flammable.
H302	Unhealthy if swallowed.
H304	Can be fatal if swallowed and enters the respiratory tract. H314 Causes severe skin burns and severe eye damage. H315 Causes skin irritation.
H317	May cause allergic skin reactions.
H318	Causes severe eye damage.
H336	Can Cause drowsiness and drowsiness.
H361d	Can probably harm the child in the womb.
H373	May damage organs with prolonged or repeated exposure. H412 Harmful to aquatic organisms, with long-term effects.
EUH066	Repeated Contact can lead to brittle or cracked skin.

**Additional Information**

The information provided in this safety data sheet is intended to describe the product with regard to the necessary safety precautions. They do not serve to guarantee certain properties and are based on the current state of our knowledge. The safety data sheet was prepared on the basis of the information provided by upstream 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

*(The data of the hazardous ingredients were taken from the latest safety data sheet of the upstream supplier.)*