

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### aniline

Revision date: 22.02.2023

Product code: 19200

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

### 1.1. Product identifier

aniline

Substance name: aniline  
REACH Registration Number: 01-2119451454-41-XXXX  
CAS No: 62-53-3  
Index No: 612-008-00-7  
EC No: 200-539-3

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

#### Use of the substance/mixture

Laboratory chemicals  
Industrial uses: Uses of substances as such or in preparations at industrial sites  
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

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

Company name: AnalytiChem GmbH  
Street: Stempelstraße 6  
Place: D-47167 Duisburg  
Telephone: 0203/5194-0  
e-mail: info@analytichem.de  
Contact person: Abteilung Produktsicherheit  
e-mail: produktsicherheit@analytichem.de  
Internet: www.analytichem.de  
Responsible Department: Abteilung Produktsicherheit  
Telefax: 0203/5194-290  
Telephone: 0203/5194-107/117

### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

### Further Information

No data available

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

Carc. 2; H351  
Muta. 2; H341  
Acute Tox. 3; H331  
Acute Tox. 3; H311  
Acute Tox. 3; H301  
Eye Dam. 1; H318  
Skin Sens. 1; H317  
STOT RE 1; H372  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No 1272/2008

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**Signal word:** Danger

**Pictograms:**



**Hazard statements**

- H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
- H318 Causes serious eye damage.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H372 Causes damage to organs (blood) through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P273 Avoid release to the environment.
- 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.
- P391 Collect spillage.
- P405 Store locked up.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances**

Sum formula: C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub>  
Molecular weight: 93,13 g/mol

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	Classification (Regulation (EC) No 1272/2008)	
62-53-3	aniline	100 %
	200-539-3      612-008-00-7      01-2119451454-41-	
	Carc. 2, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1; H351 H341 H331 H311 H301 H318 H317 H372 H400 H410	

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
62-53-3	200-539-3	aniline	100 %
		inhalation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 1316 mg/kg; oral: LD50 = 442 mg/kg STOT RE 1; H372: >= 1 - 100 STOT RE 2; H373: >= 0,2 - < 1	

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection!  
Call a physician immediately.

#### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Call a physician immediately.

#### After contact with skin

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.  
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.

#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

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

Causes burns.  
Irritant  
Risk of serious damage to eyes.  
Allergic reactions  
Vomiting  
Gastrointestinal complaints  
Headache  
Circulatory collapse  
Cardiac arrhythmias  
Dyspnoea  
Spasms  
Cyanosis (blue coloured blood)

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

Call a physician immediately.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

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

Combustible liquids  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Hazardous combustion products  
In case of fire may be liberated:  
Nitrogen oxides (NO<sub>x</sub>)

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.  
In case of fire and/or explosion do not breathe fumes.

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Avoid contact with skin, eyes and clothes.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### General advice

Do not breathe vapour/aerosol.

#### For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Use personal protection equipment.

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

Do not breathe dust/fume/gas/mist/vapours/spray. If handled uncovered, arrangements with local exhaust ventilation have to be used. Use extractor hood (laboratory).

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

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Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Further information on handling**

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Take off immediately all contaminated clothing and wash it before reuse.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.

Keep locked up.

Store in a place accessible by authorized persons only.

Provide adequate ventilation as well as local exhaust at critical locations.

storage temperature +5°C - +30°C

**Further information on storage conditions**

Store in a dry place.

Store in a well-ventilated place.

Protect against: Light

Corrosive to metals.

Unsuitable container/equipment material: Metal

**7.3. Specific end use(s)**

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
62-53-3	Aniline	2	7.74		TWA (8 h)	
		5	19.35		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
62-53-3	Aniline	p-Aminophenol	0 mg/L	Urine	0-2hr after exposure/shift

**DNEL/DMEL values**

CAS No	Substance	DNEL type	Exposure route	Effect	Value
62-53-3	aniline				
		Worker DNEL, long-term	inhalation	systemic	7,7 mg/m <sup>3</sup>
		Worker DNEL, acute	inhalation	systemic	15,4 mg/m <sup>3</sup>
		Worker DNEL, long-term	dermal	systemic	2 mg/kg bw/day
		Worker DNEL, acute	dermal	systemic	4 mg/kg bw/day

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**PNEC values**

CAS No	Substance	
Environmental compartment		Value
62-53-3	aniline	
Freshwater		0,001 mg/l
Marine water		0 mg/l
Freshwater sediment		0,153 mg/kg
Marine sediment		0,015 mg/kg
Secondary poisoning		2300 mg/kg
Micro-organisms in sewage treatment plants (STP)		2 mg/l
Soil		0,033 mg/kg

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

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.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 898 Butoject®  
Recommended material: Butyl caoutchouc (butyl rubber) 0,7 mm  
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 720 Camapren®  
Recommended material: CR (polychloroprene, chloroprene rubber) 0,65 mm  
Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

**Skin protection**

Wear suitable protective clothing. Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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Filtering device with filter or ventilator filtering device of type: A-(P3)

**Thermal hazards**

No data available

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

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

Physical state:	Liquid
Colour:	light brown
Odour:	like: Amines
Odour threshold:	No data available
Melting point/freezing point:	-6,2 °C
Boiling point or initial boiling point and boiling range:	184 °C
Flammability:	not applicable
Lower explosion limits:	1,2 vol. %
Upper explosion limits:	11 vol. %
Flash point:	76 °C
Auto-ignition temperature:	630 °C
Decomposition temperature:	190 °C
pH-Value (at 20 °C):	8,8 (36 g/l)
Viscosity / kinematic: (at 20 °C)	4,4 mm <sup>2</sup> /s
Water solubility: (at 20 °C)	36 g/L
Solubility in other solvents	not determined
Dissolution rate:	No data available
Partition coefficient n-octanol/water:	No data available
Dispersion stability:	No data available
Vapour pressure: (at 20 °C)	0,4 hPa
Vapour pressure:	No data available
Density:	1,02 g/cm <sup>3</sup>
Bulk density:	No data available
Relative vapour density:	No data available
Particle characteristics:	No data available

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties	No data available
Sustaining combustion:	No data available
Self-ignition temperature	
Solid:	No data available
Gas:	not applicable
Oxidizing properties	
Not oxidising.	

**Other safety characteristics**

Evaporation rate:	not determined
Solvent separation test:	No data available
Solvent content:	No data available

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Solid content:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
No data available:	
Viscosity / dynamic:	No data available
Flow time:	No data available

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Corrosive to metals.

In case of warming: Vapours can form explosive mixtures with air.

### 10.2. Chemical stability

Protect against: Light

### 10.3. Possibility of hazardous reactions

Oxidising agent  
peroxides, for example hydrogen peroxide  
Nitric acid  
Oxygen  
Alkali metals  
Alkaline earth metal  
Fluorine  
Acetic anhydride  
Acid  
NO<sub>3</sub>

### 10.4. Conditions to avoid

Heat  
Light

### 10.5. Incompatible materials

Metal

### 10.6. Hazardous decomposition products

In case of fire may be liberated:  
SECTION 5: Firefighting measures

#### Further information

No data available

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

Toxic if swallowed.  
Toxic in contact with skin.  
Toxic if inhaled.  
Obtain special instructions before use.



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
62-53-3	aniline				
	oral	LD50 442 mg/kg	Rat	Study report (1969)	5 doses, 5 male rats per dose, observati
	dermal	LD50 1316 mg/kg	guinea pig, rabbit	Toxicology and Applied Pharmacology 7, 5	other: 21 CFR 191.10
	inhalation vapour	ATE 3 mg/l			
	inhalation dust/mist	ATE 0,5 mg/l			

**Irritation and corrosivity**

Causes serious eye damage.  
Skin corrosion/irritation: Based on available data, the classification criteria are not met.  
Following ingestion Gastric perforation  
Irritating to respiratory system.

**Sensitising effects**

May cause an allergic skin reaction. (aniline)

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

Suspected of causing genetic defects. (aniline)  
Suspected of causing cancer. (aniline)  
Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

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

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure. (aniline)

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

Observe risk of aspiration if vomiting occurs.

**Further information**

Causes burns.  
Irritant  
Risk of serious damage to eyes.  
Allergic reactions  
Vomiting  
Gastrointestinal complaints  
Headache  
Circulatory collapse  
Cardiac arrhythmias  
Dyspnoea  
Spasms

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Cyanosis (blue coloured blood)

**SECTION 12: Ecological information**

**12.1. Toxicity**

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
62-53-3	aniline					
	Acute fish toxicity	LC50 mg/l	36,2	96 h	Oncorhynchus mykiss	Environ Toxicol Chem 3: 243-254. (1984)
	Acute algae toxicity	ErC50	175 mg/l	72 h	Chlorella pyrenoidosa	Aquat Toxicol 46(1): 1-10 (1999)
	Acute crustacea toxicity	EC50 mg/l	0,16	48 h	Daphnia magna	Study report (1998)
	Fish toxicity	NOEC mg/l	0,39	32 d	Pimephales promelas	Study report (1991)
	Crustacea toxicity	NOEC mg/l	0,016	21 d	Daphnia magna	Study report (1989)
	Acute bacteria toxicity	(EC50 mg/l)	65,93	0,5 h	Photobacterium phosphoreum	REACH Registration Dossier
						Continuous flow within 96 h
						OECD Guideline 201
						other: EPA Daphnia acute toxicity test.
						Early life stage test, no further inform
						other: 21-day Reproduction Test acc. to
						Method: other: Microtox Test

**12.2. Persistence and degradability**

Readily biodegradable (according to OECD criteria).

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
62-53-3	aniline	0,91

**BCF**

CAS No	Chemical name	BCF	Species	Source
62-53-3	aniline	2,6	Danio rerio	Sci Total Environ 10

**12.4. Mobility in soil**

No data available

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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

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

**Further information**

Do not allow to enter into surface water or drains.

Discharge into the environment must be avoided.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Send to a physico-chemical treatment facility under observation of official regulations.  
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  
Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".  
This material and its container must be disposed of as hazardous waste.  
Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 1547  
**14.2. UN proper shipping name:** ANILINE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
Hazard label: 6.1  
Classification code: T1  
Special Provisions: 279  
Limited quantity: 100 mL  
Excepted quantity: E4  
Transport category: 2  
Hazard No: 60  
Tunnel restriction code: D/E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 1547  
**14.2. UN proper shipping name:** ANILINE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
Hazard label: 6.1  
Classification code: T1  
Special Provisions: 279 802  
Limited quantity: 100 mL  
Excepted quantity: E4

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 1547  
**14.2. UN proper shipping name:** ANILINE  
**14.3. Transport hazard class(es):** 6.1  
**14.4. Packing group:** II  
Hazard label: 6.1  
Marine pollutant: P  
Special Provisions: 279  
Limited quantity: 100 mL  
Excepted quantity: E4  
EmS: F-A, S-A

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

**14.1. UN number or ID number:** UN 1547

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<b>14.2. UN proper shipping name:</b>	ANILINE	
<b>14.3. Transport hazard class(es):</b>	6.1	
<b>14.4. Packing group:</b>	II	
Hazard label:	6.1	
Special Provisions:	A113	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y641	
Excepted quantity:	E4	
IATA-packing instructions - Passenger:		654
IATA-max. quantity - Passenger:		5 L
IATA-packing instructions - Cargo:		662
IATA-max. quantity - Cargo:		60 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS:	Yes
Danger releasing substance:	aniline

**14.6. Special precautions for user**

Warning: Toxic.

**14.7. Maritime transport in bulk according to IMO instruments**

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, Entry 75	
Information according to 2012/18/EU (SEVESO III):	H2 ACUTE TOXIC
Additional information:	E1

**National regulatory information**

Employment restrictions:	Observe restrictions to employment for juveniles 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. Observe employment restrictions for women of child-bearing age.
Water hazard class (D):	2 - obviously hazardous to water
Skin resorption/Sensitization:	Permeates easily through outer skin and causes poisoning. Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 2,6,8,9,12.

**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 Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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

H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H372	Causes damage to organs (blood) through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.