

# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

#### Anilin reinst

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

#### 1.1. Product identifier

Anilin reinst

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

ACD

Street: Stempelstraße 6
Place: D-47167 Duisburg

Telephone: 0203/5194-0 Telefax: 0203/5194-290

E-mail: info@analytichem.de

Contact person: Abteilung Produktsicherheit Telephone: 0203/5194-107/117

E-mail: produktsicherheit@analytichem.de

Internet: www.analytichem.de

Responsible Department: Abteilung Produktsicherheit

1.4. Emergency telephone For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire,

<u>number:</u> 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



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## Regulation (EC) No 1272/2008

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 and 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: C6H7N Molecular weight: 93,13 g/mol

#### Relevant ingredients

CAS No	Chemical name	Chemical name		
	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. L	imits, M-factors and ATE	
62-53-3	200-539-3	aniline	100 %
		= 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = al: LD50 = 442 mg/kg	

## **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006



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(REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

#### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### General information

Call a physician immediately.

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

#### 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

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of 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.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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

Irritant, Allergic reactions

Vomiting, Gastrointestinal complaints

Methaemoglobinaemia, Circulatory collapse

Blood pressure drop, Dyspnoea

Spasms

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

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water) with plenty of activated coal.

## **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

Hazardous combustion products

In case of fire may be liberated:

Carbon dioxide (CO2), Carbon monoxide

Nitrogen oxides (NOx)

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Heating causes rise in pressure with risk of bursting.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### 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.



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#### **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** 

Consult an expert

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, Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe vapour/aerosol. Provide adequate ventilation.

Use extractor hood (laboratory).

## Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on general occupational hygiene

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

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



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#### Further information on handling

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

Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used. Store in a place accessible by authorized persons only.

# 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 exhaustion at critical locations.

#### Hints on joint storage

national regulations

#### Further information on storage conditions

Keep cool. Protect from sunlight.

## 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/m³	fib/cm³	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		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/m³
Worker DNEL	, acute	inhalation	systemic	15,4 mg/m³
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	
Environmenta	al compartment	Value
62-53-3	aniline	
Freshwater		0,001 mg/l
Marine water	r	0 mg/l
Freshwater s	sediment	0,153 mg/kg
Marine sedim	nent	0,015 mg/kg
Secondary po	oisoning	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

4When 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 With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 898 Butoject®

Suitable 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®

Suitable 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).

#### Skin protection

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

Wear fire resistant or flame retardant clothing.

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

Draw up and observe skin protection programme.



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#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

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

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### 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: brown

Odour threshold:

No data available

Melting point/freezing point:

Boiling point or initial boiling point and

184 °C

boiling range:

No data available Flammability: Lower explosion limits: 1,2 vol. % Upper explosion limits: 11 vol. % 76 °C Flash point: Auto-ignition temperature: 530 °C No data available Decomposition temperature: pH-Value (at 20 °C): Viscosity / kinematic: No data available Water solubility: 34 a/l

(at 20 °C)

Solubility in other solvents

No data available

Dissolution rate:

Partition coefficient n-octanol/water:

Dispersion stability:

Vapour pressure:

No data available

No data available

No data available

No data available

O,5 hPa

(at 20 °C)

Vapour pressure:No data availableDensity (at 20 °C):1,02 g/cm³Relative density:No data availableBulk density:No data availableRelative vapour density:No data availableParticle characteristics:No data available

#### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Sustaining combustion:

No data available

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties Not oxidising.



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#### Other safety characteristics

Evaporation rate: No data available Solvent separation test: No data available Solvent content: No data available Solid content: No data available Sublimation point: No data available Softening point: No data available Pour point: No data available Viscosity / dynamic: No data available

Flow time:

No data available

No data available

#### **Further Information**

No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

In case of warming:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### 10.2. Chemical stability

Protect against: Light

#### 10.3. Possibility of hazardous reactions

Explosionsgefahr mit:

Oxidationsmittel, Peroxiverbindungen, Perchlorate, Perchlorsäure, Salpetersäure, Sauerstoff, organische

Nitroverbindungen, Benzol/Benzolderivate

Exotherme Reaktion mit:

Halbmetall-Halogenide, Essigsäureanhydrid, Säuren

Entzündungsgefahr bzw. Entstehung entzündlicher Gase oder Dämpfe mit: Fluor, Erdalkalimetalle,

Alkalimetalle

#### 10.4. Conditions to avoid

Radiant heat.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5. Incompatible materials

Metal

### 10.6. Hazardous decomposition products

**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

#### Toxicocinetics, metabolism and distribution

No data available

## **Acute toxicity**

Toxic if swallowed.

Toxic in contact with skin.

Toxic if inhaled.



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CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
62-53-3	aniline					
	oral	LD50 mg/kg	442	Rat	Study report (1969)	5 doses, 5 male rats per dose, observati
	dermal	LD50 mg/kg	1316	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

Serious eye damage/eye irritation: Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### 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.

# Information on likely routes of exposure

No data available

# 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

No data available

#### **Further information**

No data available

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.



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CAS No	Chemical name	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)	Continuous flow within 96 h	
	Acute algae toxicity	ErC50	175 mg/l	72 h	Chlorella pyrenoidosa	Aquat Toxicol 46(1): 1-10 (1999)	OECD Guideline 201	
	Acute crustacea toxicity	EC50 mg/l	0,16	48 h	Daphnia magna	Study report (1998)	other: EPA Daphnia acute toxicity test.	
	Fish toxicity	NOEC mg/l	0,39	32 d	Pimephales promelas	Study report (1991)	Early life stage test, no further inform	
	Crustacea toxicity	NOEC mg/l	0,016	21 d	Daphnia magna	Study report (1989)	other: 21-day Reproduction Test acc. to	
	Acute bacteria toxicity	EC50 mg/l ( )	65,93	0,5 h	Photobacterium phosphoreum	REACh Registration Dossier	Method: other: Microtox Test	

## 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
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.

#### 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.

#### **Further information**

Avoid release to the environment.

## **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 empty into drains.



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## Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# **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:	Р
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
14.2. UN proper shipping name:	ANILINE
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	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



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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 Directive

normation according to Directive

H2 ACUTE TOXIC

2012/18/EU (SEVESO III):

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): 2,6,8,9,11,12,15.



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#### Abbreviations and acronyms

Acute Tox: Acute toxicity Eye Dam: Eye damage Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity

Carc: Carcinogenicity

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard

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

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 eve 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.