

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Micropearl AU

Version number: 1.0

First version: 2021-04-07

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

#### 1.1 Product identifier

<b>Trade name</b>	<u>Micropearl AU</u>
<b>Registration number (REACH)</b>	Not relevant (mixture).
<b>CAS number</b>	not relevant (mixture)

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

<b>Relevant identified uses</b>	Electronics
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#### 1.3 Details of the supplier of the safety data sheet

SEKISUI Chemical GmbH	Telephone: +49(0)211 36977-0
Koenigsallee 106	Telefax: +49(0)211 36977-31
40215 Düsseldorf	
Germany	

#### 1.4 Emergency telephone number

<b>Emergency information service</b>	+49-(0) 211-3697714 (Germany) CS Technical Support, SEKISUI CHEMICAL GmbH
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As above or nearest toxicological information centre.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
3.4S	skin sensitisation	1	Skin Sens. 1	H317
3.6	carcinogenicity	2	Carc. 2	H351
3.9	specific target organ toxicity - repeated exposure	1	STOT RE 1	H372
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16

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## The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.  
Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word** danger

### Pictograms

GHS07, GHS08



### Hazard statements

- H317** May cause an allergic skin reaction.  
**H351** Suspected of causing cancer.  
**H372** Causes damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).  
**H412** Harmful to aquatic life with long lasting effects.

### Precautionary statements

- P202** Do not handle until all safety precautions have been read and understood.  
**P261** Avoid breathing dust.  
**P273** Avoid release to the environment.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
**P302+P352** IF ON SKIN: Wash with plenty of soap and water.  
**P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P308+P313** IF exposed or concerned: Get medical advice/attention.

**Hazardous ingredients for labelling** nickel

## 2.3 Other hazards

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients


### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

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## Description of the mixture

Hazardous ingredients					
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Gold	CAS No 7440-57-5  EC No 231-165-9	10 – 50	-	-	-
nickel	CAS No 7440-02-0  EC No 231-111-4  Index No 028-002-01-4	18 – 34	Skin Sens. 1 / H317 Carc. 2 / H351 STOT RE 1 / H372 Aquatic Chronic 3 / H412		GHS-HC

### Notes

GHS- Harmonised classification (the classification of the substance corresponds to the entry in the list according to  
HC: 1272/2008/EC, Annex VI)

for full text of H-phrases: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Self-protection of the first aider.

Remove victim out of the danger area.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Rinse cautiously with water for several minutes.

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

Get medical advice/attention.

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## Following ingestion

Rinse mouth with water (only if the person is conscious).  
Induce vomiting when the affected person is not unconscious.  
Get medical advice/attention.

## Notes for the doctor

None.

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

These information are not available.

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

None.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water, foam, alcohol resistant foam, fire extinguishing powder

#### Unsuitable extinguishing media

water jet

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

Hazardous decomposition products: Section 10.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
Co-ordinate firefighting measures to the fire surroundings.  
Do not allow firefighting water to enter drains or water courses.  
Collect contaminated firefighting water separately.  
Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

use suitable breathing apparatus

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.  
Ventilate affected area.  
Avoid contact with skin and eyes.  
Avoid breathing dust.  
Control of dust.  
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

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## **For emergency responders**

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

## **6.2 Environmental precautions**

Keep away from drains, surface and ground water.  
Retain contaminated washing water and dispose of it.

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

### **Advice on how to contain a spill**

Take up mechanically.

### **Advice on how to clean up a spill**

Take up mechanically.  
Collect spillage.

### **Other information relating to spills and releases**

Place in appropriate containers for disposal.  
Ventilate affected area.

## **6.4 Reference to other sections**

Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes.  
Provision of sufficient ventilation.  
Do not breathe dust.  
Control of dust.

### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.  
Keep away from sources of ignition - No smoking.

### **Specific notes/details**

Dust deposits may accumulate on all deposition surfaces in a technical room.

### **Measures to protect the environment**

Avoid release to the environment.

### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.  
Wash hands after use.  
Preventive skin protection (barrier creams/ointments) is recommended.  
Remove contaminated clothing and protective equipment before entering eating areas.

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

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## Explosive atmospheres

Removal of dust deposits.

## Flammability hazards

None.

## Incompatible substances or mixtures

Incompatible materials: see section 10.

## Protect against external exposure, such as

UV-radiation/sunlight

## Consideration of other advice

Keep away from food, drink and animal feeding stuffs.

## Ventilation requirements

Provision of sufficient ventilation.

## Specific designs for storage rooms or vessels

Store in a dry place. Store in a closed container.

Keep cool. Protect from sunlight.

## Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
GB	dust	-	WEL	-	10	-	-	i	EH40/2005
GB	dust	-	WEL	-	4	-	-	r	EH40/2005
GB	nickel	7440-02-0	WEL	-	0.1	-	-	-	EH40/2005

#### Notation

i inhalable fraction

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
nickel	7440-02-0	DNEL	0.05 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
nickel	7440-02-0	DNEL	0.05 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
nickel	7440-02-0	PNEC	0.0086 mg/cm <sup>3</sup>	marine water
nickel	7440-02-0	PNEC	29.9 mg/cm <sup>3</sup>	soil
nickel	7440-02-0	PNEC	0.0036 mg/cm <sup>3</sup>	freshwater
nickel	7440-02-0	PNEC	0.33 mg/cm <sup>3</sup>	sewage treatment plant (STP)
nickel	7440-02-0	PNEC	7.1 µg/l	freshwater
nickel	7440-02-0	PNEC	8.6 µg/l	marine water
nickel	7440-02-0	PNEC	0.33 mg/l	sewage treatment plant (STP)
nickel	7440-02-0	PNEC	109 mg/kg	freshwater sediment
nickel	7440-02-0	PNEC	109 mg/kg	marine sediment
nickel	7440-02-0	PNEC	29.9 mg/kg	soil

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
no information available	no information available	no information available

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Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Particulate filter device (EN 143).

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	solid (powder)
<b>Colour</b>	brown - yellow
<b>Odour</b>	odourless
<b>Melting point/freezing point</b>	not determined
<b>Boiling point or initial boiling point and boiling range</b>	not determined
<b>Flammability</b>	this material is combustible, but will not ignite readily
<b>Lower and upper explosion limit</b>	not determined
<b>Flash point</b>	not applicable
<b>Auto-ignition temperature (liquids and gases)</b>	not applicable (solid)
<b>Decomposition temperature</b>	not relevant
<b>pH (value)</b>	not applicable
<b>Viscosity</b>	not relevant (solid)
<b>Solubility(ies)</b>	
Water solubility	insoluble
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Vapour pressure</b>	not determined
<b>Density and/or relative density</b>	
Density	not determined



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Relative density 1.5 – 3 (water = 1)

**Particle characteristics** no data available

## 9.2 Other information

**Information with regard to physical hazard classes** hazard classes acc. to GHS (physical hazards): not relevant

**Other safety characteristics** there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

oxidisers, fluorine, ammonia (NH<sub>3</sub>), aluminium, aluminium compound, ethylene, methanol, hydrogen, halogen, cyanide, thiocyanate, NH<sub>4</sub>NO<sub>3</sub>

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## SECTION 11: Toxicological information

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

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

#### Acute toxicity

Test data are not available for the complete mixture.

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Name of substance	CAS No	Exposure route	End-point	Value	Species	Method	Source
nickel	7440-02-0	oral	LD50	>9,000 mg/kg	rat	OECD Guideline 401	ECHA

## Skin corrosion/irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Serious eye damage/eye irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Respiratory or skin sensitisation

### Skin sensitisation

May cause an allergic skin reaction.

### Respiratory sensitisation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Germ cell mutagenicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

Suspected of causing cancer.

## Reproductive toxicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Hazard category	Target organ	Exposure route
1	respiratory system	if inhaled
2	respiratory system	if inhaled

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

There is no additional information.

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## Endocrine disrupting properties

None of the ingredients are listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Test data are not available for the complete mixture.

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Method	Source	Exposure time
nickel	7440-02-0	LC50	15.3 mg/l	rainbow trout (Oncorhynchus mykiss)	-	ECHA	96 h
nickel	7440-02-0	LC50	40 µg/l	Ceriodaphnia dubia (water flea)	-	-	96 h
nickel	7440-02-0	EC50	>0.081 – <0.148 mg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	48 h
nickel	7440-02-0	EC50	0.013 mg/l	daphnia	-	-	48 h
nickel	7440-02-0	ErC50	<148 µg/l	algae (pseudokirchneriella subcapitata)	OECD Guideline 201	ECHA	72 h

#### Aquatic toxicity (chronic)

Harmful to aquatic life with long lasting effects.

Test data are not available for the complete mixture.

#### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
nickel	7440-02-0	NOEC	15.3 µg/l	Ceriodaphnia dubia (water flea)	ECHA	7 d
nickel	7440-02-0	NOEC	40 µg/l	striped brill (Brachydanio rerio)	-	28 d
nickel	7440-02-0	NOEC	1.4 µg/l	daphnia	-	28 d
nickel	7440-02-0	NOEC	12.4 µg/l	algae	-	28 d

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Name of substance	CAS No	Endpoint	Value	Species	Source	Exposure time
nickel	7440-02-0	LOEC	0.141 mg/l	saltwater invertebrates (Mysidopsis bahia)	ECHA	36 d
nickel	7440-02-0	growth rate (ErCx) 10%	3,599 µg/l	fish	ECHA	40 d

## 12.2 Persistence and degradability

### Biodegradation

No data available.

### Persistence

No data available.

## 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW
nickel	7440-02-0	270	-

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 12.6 Endocrine disrupting properties

None of the ingredients are listed.

## 12.7 Other adverse effects

Data are not available.

### Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

This material and its container must be disposed of as hazardous waste.

#### Sewage disposal-relevant information

Do not empty into drains.

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## Waste treatment of containers/packagings

Completely emptied packages can be recycled.  
Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

14.1	UN number or ID number	not assigned
14.2	UN proper shipping name	-
14.3	Transport hazard class(es)	-
14.4	Packing group	-
14.5	Environmental hazards	-
14.6	Special precautions for user	-
14.7	Maritime transport in bulk according to IMO instruments	-

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

Name	Name acc. to inventory	CAS No	Restriction
nickel	nickel	7440-02-0	R27
nickel	nickel compounds	-	R27

#### Legend

- R27 1. Shall not be used:
- (a) in any post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than 0,2 µg/cm<sup>2</sup>/week (migration limit);
  - (b) in articles intended to come into direct and prolonged contact with the skin such as:
    - earrings,
    - necklaces, bracelets and chains, anklets, finger rings,
    - wrist-watch cases, watch straps and tighteners,
    - rivet buttons, tighteners, rivets, zippers and metal marks, when these are used in garments,if the rate of nickel release from the parts of these articles coming into direct and prolonged contact with the skin is greater than 0,5 µg/cm<sup>2</sup>/week.
  - (c) in articles referred to in point (b) where these have a non-nickel coating unless such coating is sufficient to ensure that the rate of nickel release from those parts of such articles coming into direct and prolonged contact with the skin will not exceed 0,5 µg/cm<sup>2</sup>/week for a period of at least two years of normal use of the article.
2. Articles which are the subject of paragraph 1 shall not be placed on the market unless they conform to the requirements set out in that paragraph.
3. The standards adopted by the European Committee for Standardisation (CEN) shall be used as the test meth-

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## Legend

ods for demonstrating the conformity of articles to paragraphs 1 and 2.

## List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

## Seveso Directive

Not assigned.

## Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

## Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

## Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

## Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

None of the ingredients are listed.

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
BCF	Bioconcentration factor
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)

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Abbr.	Descriptions of used abbreviations
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LOEC	Lowest Observed Effect Concentration
log KOW	n-Octanol/water
NLP	No-Longer Polymer
NOEC	No Observed Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
SVHC	Substance of Very High Concern

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Abbr.	Descriptions of used abbreviations
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

## Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH).

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H372	Causes damage to organs (respiratory system) through prolonged or repeated exposure (if inhaled).
H412	Harmful to aquatic life with long lasting effects.

## Responsible for the safety data sheet

C.S.B. GmbH  
Düsseldorfer Str. 113  
47809 Krefeld, Germany

Telephone: +49 (0) 2151 - 652086 - 0  
Telefax: +49 (0) 2151 - 652086 - 9  
e-Mail: info@csb-online.de  
Website: www.csb-online.de

## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.