

## Gold alloy [Ni]

Version 8.0

DE

SDS Number: 300000001605

Revision Date: 30.03.2023

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

Product identifier : Gold alloy [Ni]  
Product code : 300000001605  
Unique Formula Identifier (UFI) : G2Y1-0096-N00K-5K7S

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

Use of the Substance/Mixture : wires, sheets metal, tubes

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

Company : Agosi AG  
Kanzlerstrasse 17  
75175 Pforzheim  
Germany  
E-mail address of person responsible for the SDS : EHS-Info@agosi.de

#### 1.4 Emergency telephone number

##### Poison Center

Telephone : +49 30 192 40  
Hours of operation : 24HRS

##### Supplier

Emergency telephone number : For transport in Europe, Central- and South America, Israel and Africa (Non-Arabic speaking countries): (+32) 3 213 15 70  
For transport in the Middle East (Israel excluded) & Arabic speaking Africa: (+32) 3 213 33 79  
For transport in the USA and Canada: (+1)-877 986 4267  
For transport in Asian and the Pacific (China excluded): (+65) 62 64 78 36  
For transport in China: (+86) 400 120 60 11

Hours of operation : This telephone number is available 24 hours per day, 7 days per week.

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**SECTION 2: Hazards identification**



**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351: Suspected of causing cancer if inhaled.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms	:	 
Signal word	:	Danger
Hazard statements	:	H317 May cause an allergic skin reaction. H351 Suspected of causing cancer if inhaled. H372 Causes damage to organs through prolonged or repeated exposure.
Precautionary statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P260 Do not breathe dust. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. <b>Response:</b> P308 + P313 IF exposed or concerned: Get medical advice/ attention. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

**Hazardous components which must be listed on the label:**

Nickel

**Additional Labelling**

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 30 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 56 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 31 %

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The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 47 %

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Nickel	7440-02-0 231-111-4 028-002-00-7 01-2119438727-29	Skin Sens. 1; H317 Carc. 2; H351 STOT RE 1; H372	<= 25
indium	7440-74-6 231-180-0 01-2120756870-48	STOT RE 1; H372	<= 1
Substances with a workplace exposure limit :			
silver	7440-22-4 231-131-3 01-2119555669-21		<= 17

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.  
Cover wound with sterile dressing.
- In case of eye contact : Remove contact lenses.

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Flush eyes with water as a precaution.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

Symptoms : Skin contact may provoke the following symptoms:  
Allergic reactions

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Not combustible.

Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Hazardous combustion products

Metal oxides  
Nickel compounds  
Silver compounds

### 5.3 Advice for firefighters

Special protective equipment for firefighters : No special protective equipment required.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

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If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice. Wash hands before breaks and immediately after handling the product.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) : 6.1D, Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Nickel	7440-02-0	AGW (Alveolate fraction)	0,006 mg/m <sup>3</sup> (Nickel)	DE TRGS 900
Peak-limit: excursion factor (category): 8;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sen-				

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		sitizing through the skin		
		TWA (Respirable dust)	0,01 mg/m3	2004/37/EC
	Further information: dermal and respiratory sensitisation, Carcinogens or mutagens			
		TWA (inhalable fraction)	0,1 mg/m3	2004/37/EC
	Further information: dermal and respiratory sensitisation, Carcinogens or mutagens			
		TWA (Inhalable particulate matter)	1,5 mg/m3	ACGIH
silver	7440-22-4	TWA	0,01 mg/m3 (Silver)	2006/15/EC
	Further information: Indicative			
		TWA	0,1 mg/m3	2000/39/EC
	Further information: Indicative			
		AGW (Inhalable fraction)	0,1 mg/m3	DE TRGS 900
	Peak-limit: excursion factor (category): 8;(II)			
		TWA (Dust and fume)	0,1 mg/m3	ACGIH
indium	7440-74-6	AGW (Alveolate fraction)	0,0001 mg/m3 (Indium)	DE TRGS 900
	Peak-limit: excursion factor (category): 8;(II)			
		TWA	0,1 mg/m3 (Indium)	ACGIH
		TWA	0,1 mg/m3 (Indium)	ACGIH

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Nickel	7440-02-0	Nickel (Nickel): 5 µg/l (Urine)	End of shift at end of workweek	ACGIH BEI
		Nickel (Nickel): 30 µg/l (Urine)	End of shift at end of workweek	ACGIH BEI
indium	7440-74-6	Indium (Indium): 1 µg/l (In serum or plasma)	Not critical	ACGIH BEI

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
silver	Workers	Inhalation	Long-term systemic effects	0,1 mg/m3
	Consumers	Inhalation	Long-term systemic effects	0,04 mg/m3
	Consumers	Oral	Long-term systemic effects	1,2 mg/kg
Copper	Workers	Dermal	Acute systemic effects	273 mg/kg

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	Workers	Inhalation	Acute systemic effects	18,2 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	137 mg/kg
	Consumers	Dermal	Acute systemic effects	273 mg/kg
	Consumers	Inhalation	Acute systemic effects	18,2 mg/m <sup>3</sup>
	Consumers	Oral	Acute systemic effects	0,16 mg/kg
	Consumers	Oral	Long-term systemic effects	0,16 mg/kg
Nickel	Consumers	Oral	Acute systemic effects	0,012 mg/kg
Remarks:unit expressed as mg metal/kg				
	Consumers	Inhalation	Acute local effects	0,8 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Consumers	Inhalation	Long-term systemic effects	0,00002 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Consumers	Oral	Long-term systemic effects	0,02 mg/kg
Remarks:unit expressed as mg metal/kg				
	Consumers	Inhalation	Long-term local effects	0,00002 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Consumers	Dermal	Long-term local effects	0,035 mg/cm <sup>2</sup>
	Workers	Inhalation	Acute local effects	11,9 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Workers	Inhalation	Long-term systemic effects	0,05 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Workers	Inhalation	Long-term local effects	0,05 mg/m <sup>3</sup>
Remarks:unit expressed as mg metal/m <sup>3</sup>				
	Workers	Dermal	Long-term local effects	0,035 mg/cm <sup>2</sup>
zinc	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg
	Consumers	Dermal	Long-term systemic effects	83 mg/kg
indium	Workers	Inhalation	Long-term local effects	6,3 µg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,12 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

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Substance name	Environmental Compartment	Value	
silver	Fresh water	0,00004 mg/l	
	Remarks:Assessment Factors		
	Marine water	0,00086 mg/l	
	Remarks:Assessment Factors		
	Fresh water sediment	438 mg/kg dry weight (d.w.)	
	Remarks:Assessment Factors		
	Marine sediment	438 mg/kg dry weight (d.w.)	
	Remarks:Assessment Factors		
	Soil	1,41 mg/kg dry weight (d.w.)	
	Sewage treatment plant	0,025 mg/l	
	Remarks:Assessment Factors		
	Copper	Fresh water	0,0078 mg/l
Remarks:Sensitivity Distribution			
Marine water		0,0052 mg/l	
Remarks:Sensitivity Distribution			
Fresh water sediment		87 mg/kg dry weight (d.w.)	
Remarks:Sensitivity Distribution			
Soil		65,5 mg/kg dry weight (d.w.)	
Remarks:Sensitivity Distribution			
Sewage treatment plant		0,23 mg/l	
Remarks:Assessment Factors			
Nickel		Fresh water	0,0071 mg/l
		Remarks:Sensitivity Distribution	
	Marine water	0,0086 mg/l	
	Remarks:Sensitivity Distribution		
	Soil	29,9 mg/kg dry weight (d.w.)	
	Remarks:Sensitivity Distribution		
	Sewage treatment plant	0,33 mg/l	
	Remarks:Assessment Factors		
	Sediment	109 mg/kg	
	zinc	Fresh water	0,0206 mg/l
		Marine water	0,0061 mg/l
		Sewage treatment plant	0,052 mg/l
Fresh water sediment		117,8	
Marine sediment		56,5	
Soil		35,6	
indium		Fresh water	40,6 µg/l
	Marine water	40,6 µg/l	
	Sewage treatment plant	51,6 mg/l	
	Fresh water sediment	5051 mg/kg dry weight (d.w.)	
	Marine sediment	5051 mg/kg dry weight (d.w.)	
	Soil	7,3 mg/kg dry weight (d.w.)	



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### 8.2 Exposure controls

#### Personal protective equipment

- Eye/face protection : Wear safety glasses with side shields or goggles.
- Hand protection  
Material : Leather gloves
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : massive form
- Colour : yellow
- Odour : odourless
- Melting point/range : 720 - 1.100 °C
- Flammability : The product is not flammable.
- Flash point : Not applicable
- pH : substance/mixture is non-soluble (in water)
- Solubility(ies)  
Water solubility : insoluble
- Density : 14,75 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

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### 10.5 Incompatible materials

Materials to avoid : Acids

### 10.6 Hazardous decomposition products

No decomposition if used as directed.

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute dermal toxicity : Remarks: No data available

##### Components:

##### **Nickel:**

Acute oral toxicity : LD50 (Rat, male and female): > 9.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : No observed adverse effect level (Rat, male and female): > 10,2 mg/l  
Exposure time: 66 min  
Test atmosphere: dust/mist  
GLP: yes

Acute dermal toxicity : Assessment: No data available  
Remarks: data waiving in REACH dossier

##### **indium:**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: Not specified

Acute inhalation toxicity : Assessment: No data available  
Remarks: data waiving in REACH dossier

Acute dermal toxicity : Assessment: No data available  
Remarks: data waiving in REACH dossier

##### **silver:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436

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Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

#### Components:

##### **Nickel:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

##### **indium:**

Species : human skin  
Exposure time : 0,15 h  
Method : OECD Test Guideline 439  
Result : No skin irritation  
GLP : yes

##### **silver:**

Species : Rabbit  
Exposure time : 72 h  
Method : OECD Test Guideline 404  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : No data available

#### Components:

##### **Nickel:**

Species : Rabbit  
Exposure time : 48 h  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes  
Remarks : Based on read across from structural related substance

##### **indium:**

Species : chicken  
Method : OECD Test Guideline 438  
Result : No eye irritation  
GLP : yes

##### **silver:**

Species : Guinea pig

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Exposure time : 72 h  
Method : OECD Test Guideline 405  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Components:

##### **Nickel:**

Exposure routes : Skin contact  
Species : Humans  
Result : May cause sensitisation by skin contact.

Exposure routes : Inhalation  
Result : Does not cause respiratory sensitisation.

##### **indium:**

Exposure routes : Intradermal  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

Remarks : Based on read across from structural related substance

##### **silver:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OPPTS 870.2600  
Result : Does not cause skin sensitisation.  
Remarks : Based on read across from structural related substance

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
Remarks : Based on read across from structural related substance

### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

#### Components:

##### **Nickel:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster fibroblasts  
Concentration: 0.10, 0.25, 0.50, 1.0, 2.5 mM  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

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GLP: yes

Test Type: Micronucleus test  
Test system: Chinese hamster fibroblasts  
Concentration: 0.25 - 1.5 mM  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

Genotoxicity in vivo : Species: Mammalian-Animal  
Method: OECD Test Guideline 475  
Result: negative  
Remarks: No data available

**indium:**

Genotoxicity in vitro : Test system: Salmonella typhimurium TA98, TA100, TA1535, TA1537  
Method: OECD Test Guideline 471  
Result: negative  
GLP: Not specified

Genotoxicity in vivo : Species: Mouse  
Application Route: oral (gavage)  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

**silver:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Bacteria  
Method: OECD Test Guideline 471  
Result: negative

Test system: mammalian cells  
Method: OECD Test Guideline 476  
Result: positive  
Remarks: Based on read across from structural related substance

Test Type: Micronucleus test  
Test system: mammalian cells  
Method: OECD Test Guideline 487  
Result: negative  
Remarks: Based on read across from structural related substance

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mammalian-Animal  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity- As- : Overall, there is no consistent evidence of induction of genetic

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assessment toxicity with relevance to humans.

### Carcinogenicity

#### Product:

Remarks : No data available

#### Components:

##### **Nickel:**

Species : Rat, male and female  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 24 month(s)  
Dose : 0; 0,1; 0,4; 1 mg/m<sup>3</sup>  
: 0,1 mg/m<sup>3</sup>  
Method : OECD Test Guideline 451  
Result : negative

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 104 weeks  
Dose : 10; 30; 50 mg/kg body weight  
Frequency of Treatment : daily  
NOAEL : 11 mg/kg bw/day  
Method : OECD Test Guideline 451  
Result : negative  
GLP : yes  
Remarks : unit expressed as mg metal/kg  
Based on read across from structural related substance

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in inhalation studies with animals.

##### **indium:**

Remarks : No data available

### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: No data available

#### Components:

##### **Nickel:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 0; 1; 2,5; 5;10 milligram per kilogram  
General Toxicity - Parent: NOAEL: 10 mg/kg body weight  
General Toxicity F1: NOAEL: 10 mg/kg body weight  
Method: OECD Test Guideline 416

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- GLP: yes  
Remarks: Based on read across from structural related substance
- Species: Rat  
Application Route: inhalation (dust/mist/fume)  
Duration of Single Treatment: 13 Weeks  
General Toxicity - Parent: NOAEL: 0,45 mg/m<sup>3</sup>  
Remarks: unit expressed as mg metal/m<sup>3</sup>  
Based on read across from structural related substance
- Effects on foetal development : Test Type: Embryonic Stem Cell Assay  
Species: Mouse  
Result: No teratogenic effects  
GLP: Not specified
- indium:**
- Effects on fertility : Species: Mouse  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 250 mg/kg body weight  
Method: No guideline followed  
GLP: no
- Effects on foetal development : Species: Rat  
Application Route: oral (gavage)  
General Toxicity Maternal: NOAEL: 50 mg/kg body weight  
Embryo-foetal toxicity: NOAEL: 50 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: Not specified  
Remarks: Based on read across from structural related substance
- silver:**
- Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Dose: 62,5; 125, 250 milligram per kilogram  
Duration of Single Treatment: 28 days  
General Toxicity - Parent: NOAEL: > 250 mg/kg body weight  
General Toxicity F1: NOAEL: > 250 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: No effects on fertility and early embryonic development were detected.  
GLP: yes
- Effects on foetal development : Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 6,5; 19,4; 64,6 milligram per kilogram  
General Toxicity Maternal: LOAEL: 19,4 mg/kg body weight  
Developmental Toxicity: NOAEL: > 64,6 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects, Maternal toxicity  
GLP: yes

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Based on read across from structural related substance

Species: Rat  
Strain: Sprague-Dawley  
Application Route: Oral  
Dose: 6,5; 19,4; 64,6 milligram per kilogram  
General Toxicity Maternal: NOAEL: 6,5 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects  
GLP: yes  
Remarks: unit expressed as mg metal/kg  
Based on read across from structural related substance

**STOT - single exposure**

**Product:**

Remarks : No data available

**STOT - repeated exposure**

**Product:**

Remarks : No data available

**Components:**

**Nickel:**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : Causes damage to organs through prolonged or repeated exposure.

**indium:**

Exposure routes : Inhalation  
Target Organs : Lungs  
Assessment : Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**

**Components:**

**Nickel:**

Species : Rat, male and female  
LOAEL : 4 mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Test atmosphere : dust/mist  
Exposure time : 28 days  
Dose : 0; 4; 8; 24  
Method : OECD Test Guideline 412  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.



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Species : Rat, male and female  
LOAEL : 1 mg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Test atmosphere : dust/mist  
Exposure time : 13 weeks  
Dose : 0; 1; 4; 8  
Method : OECD Test Guideline 413  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

Species : Rat, male and female  
NOAEL : 11 mg/kg  
Application Route : oral (gavage)  
Exposure time : 104 weeks  
Dose : 10, 30, 50 mg/kg  
Method : OECD Test Guideline 451  
GLP : yes

Species : Rat, male and female  
: 0,1 mg/m<sup>3</sup>  
Application Route : inhalation (aerosol)  
Test atmosphere : dust/mist  
Exposure time : 2 years  
Dose : 0,1, 0,4, mg/m<sup>3</sup>  
Method : OECD Test Guideline 451  
GLP : yes  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**indium:**

Species : Rat  
NOAEL : 1.000 mg/kg  
Application Route : oral (gavage)  
Method : OECD Test Guideline 407  
GLP : Not specified

Species : Rat  
NOAEL : 0,1 mg/m<sup>3</sup>  
Application Route : inhalation (aerosol)  
Test atmosphere : dust/mist  
Method : OECD Test Guideline 413  
GLP : Not specified  
Remarks : Based on read across from structural related substance

**silver:**

Species : Rat  
NOAEL : 30 mg/kg  
LOAEL : 300 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Dose : 30; 300; 1000  
Method : OECD Test Guideline 407

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Species : Rat  
NOAEL : 30 mg/kg  
LOAEL : 125 mg/kg  
Application Route : Oral  
Exposure time : 90 d  
Number of exposures : 1/d  
Dose : 30; 125; 500  
Method : OECD Test Guideline 408

Species : Rat, male and female  
NOAEL : 133 µg/m<sup>3</sup>  
LOAEL : 515 µg/m<sup>3</sup>  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 6 h/d 90 d  
Number of exposures : 5/7 d  
Method : OECD Test Guideline 413

Species : Rat  
NOAEL : 9 mg/kg  
Application Route : Oral  
Exposure time : 28 d  
Dose : 2,25; 4,5; 9

### 11.2 Information on other hazards

#### Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Further information

**Product:**

Remarks : No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**Nickel:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 15,3 mg/l  
Exposure time: 96 h  
GLP: Not specified  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance

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- Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 0,013 mg/l  
Exposure time: 48 h  
Remarks: Fresh water  
Based on read across from structural related substance
- LC50 (Ceriodaphnia dubia (water flea)): 0,121 mg/l  
Exposure time: 48 h  
Remarks: Fresh water  
Based on read across from structural related substance
- Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (algae)): > 0,0815 - < 0,148 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water  
Based on read across from structural related substance
- EC50 (Pseudokirchneriella subcapitata (algae)): > 0,0253 - < 0,365 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Fresh water  
Based on read across from structural related substance
- NOEC : 0,0123 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance
- NOEC (Desmodesmus sp.): 0,0225 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance
- EC10 (Champia parvula (marine algae)): 0,144 mg/l  
Exposure time: 48 h  
Remarks: unit expressed as mg metal/l  
Marine water  
Based on read across from structural related substance
- EC10 (Lemna minor (duckweed)): 0,0082 mg/l  
Exposure time: 7 d  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance
- Toxicity to microorganisms : EC50 : 33 mg/l  
Exposure time: 30 min  
Method: ISO 8192  
Remarks: Based on read across from structural related sub-

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- stance  
unit expressed as mg metal/l
- Toxicity to fish (Chronic toxicity) : NOEC: 0,057 mg/l  
Exposure time: 32 DAYS  
Species: Pimephales promelas (fathead minnow)  
Remarks: Fresh water  
Based on read across from structural related substance
- NOEC: 0,04 mg/l  
Exposure time: 8 days  
Species: Danio rerio (zebra fish)  
Remarks: Fresh water  
Based on read across from structural related substance
- NOEC: 0,134 mg/l  
Exposure time: 32 days  
Species: Oncorhynchus mykiss (rainbow trout)  
Remarks: Fresh water  
Based on read across from structural related substance
- EC10: 20,76 mg/l  
Exposure time: 28 days  
Species: Cyprinodon variegatus (sheepshead minnow)  
Remarks: unit expressed as mg metal/l  
Marine water  
Based on read across from structural related substance
- EC10: 3,599 mg/l  
Exposure time: 40 days  
Species: Atherinops affinis (Topsmelt)  
Remarks: Based on read across from structural related substance  
unit expressed as mg metal/l  
Marine water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,04 mg/l  
Exposure time: 42 days  
Species: Daphnia magna (Water flea)  
Remarks: Fresh water  
Based on read across from structural related substance
- NOEC: 0,0037 mg/l  
Exposure time: 10 days  
Species: Ceriodaphnia dubia (Water flea)  
Method: OECD Test Guideline 211  
Remarks: unit expressed as mg metal/l  
Fresh water  
Based on read across from structural related substance
- NOEC: 0,061 mg/l  
Exposure time: 36 days  
Species: Mysidopsis bahia (opossum shrimp)  
Remarks: unit expressed as mg metal/l  
Marine water

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Based on read across from structural related substance

EC10: 0,089 mg/l

Exposure time: 72 h

Remarks: unit expressed as mg metal/l

Marine water

Based on read across from structural related substance

Toxicity to soil dwelling organisms

: NOEC: 180 mg/kg

Exposure time: 21 days

Species: Eisenia fetida (earthworms)

Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

NOEC: 320 mg/kg

Exposure time: 28 days

Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

Plant toxicity

: NOEC: 88 mg/kg

Exposure time: 60 d

Species: Avena sativa (oats)

Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

EC10: 34 mg/kg

Exposure time: 63 d

Species: Lactuca sativa (lettuce)

Remarks: unit expressed as mg metal/kg

Based on read across from structural related substance

Sediment toxicity

: EC10: 762 mg/kg

Species: Chironomus riparius

Remarks: unit expressed as mg metal/kg

Fresh water

Based on read across from structural related substance

EC10: 1103 mg/kg

Species: Tubifex tubifex

Remarks: unit expressed as mg metal/kg

Fresh water

Based on read across from structural related substance

EC10: 82 mg/kg

Species: Hyalella azteca

Remarks: unit expressed as mg metal/kg

Fresh water

Based on read across from structural related substance

Toxicity to terrestrial organisms

: NOEC: 800

Exposure time: 90 days

Species: Anas platyrhynchos (Mallard duck)

Remarks: Based on read across from structural related substance

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**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects., No toxicity at the limit of solubility, Dissolved metal concentration (in TDp) < acute Environmental Reference Value (ERV)

Chronic aquatic toxicity : This product has no known ecotoxicological effects., No toxicity at the limit of solubility, Dissolved metal concentration (in TDp) < chronic Environmental reference value (ERV)

**indium:**

Toxicity to fish : LC50 : > 20 mg/l  
Exposure time: 24 h  
Method: No information available.  
GLP: no  
Remarks: Based on read across from structural related substance

Toxicity to daphnia and other aquatic invertebrates : LC50 : 455 500 µg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
GLP: yes  
Remarks: Fresh water  
Based on read across from structural related substance

LC50 : 24 420 µg/l  
Exposure time: 48 h  
Method: No information available.  
GLP: Not specified  
Remarks: Marine water  
Based on read across from structural related substance

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1584 µg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Based on read across from structural related substance

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes  
Remarks: Based on read across from structural related substance

**Ecotoxicology Assessment**

Acute aquatic toxicity : No toxicity at the limit of solubility

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**silver:**

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Toxicity to fish	:	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	:	Remarks: No toxicity at the limit of solubility
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	Remarks: No toxicity at the limit of solubility
Toxicity to soil dwelling organisms	:	EC10: 5,3 mg/kg Exposure time: 28 d Species: Eisenia fetida (earthworms)  NOEC: 22,5 mg/kg Exposure time: 28 d Species: Eisenia fetida (earthworms)
Plant toxicity	:	0,13 mg/kg Test period: 17 d Species: Lactuca sativa (lettuce)
Sediment toxicity	:	NOEC: 12 mg/kg Duration: 10 d Species: Hyalella azteca Remarks: Fresh water

### 12.2 Persistence and degradability

#### Components:

##### **Nickel:**

Biodegradability : Remarks: Not applicable

##### **indium:**

Biodegradability : Remarks: data waiving in REACH dossier

### 12.3 Bioaccumulative potential

#### Components:

##### **Nickel:**

Bioaccumulation : Bioconcentration factor (BCF): > 1.631  
Method: field study  
Remarks: terrestrial environment  
Based on read across from structural related substance  
  
Bioconcentration factor (BCF): 270  
Method: field study  
Remarks: Fresh water  
Based on read across from structural related substance

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Partition coefficient: n-octanol/water : Remarks: data waiving in REACH dossier

### indium:

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : log Pow: 5,9 (22 °C)

### silver:

Bioaccumulation : Bioconcentration factor (BCF): 70

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

##### Nickel:

Assessment : not applicable for inorganic substances

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with the European Directives on waste and hazardous waste.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.



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Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of contaminated packaging as if unused product.  
Do not re-use empty containers.

### SECTION 14: Transport information

#### 14.1 UN number

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good

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**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
If you intend to use this product as tattoo ink, please contact your vendor.

Nickel (Number on list 75, 27)  
zinc (Number on list 75)  
Copper (Number on list 75)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
Not applicable  
5.2.2: Inorganic substances in powdered form:

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Class 2: 25 % Nickel  
Class 3: 10 % Copper  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Not applicable  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.1.2: Germ cell mutagens:  
Not applicable  
5.2.7.1.3: Substances toxic to reproduction:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic organic substances:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

### Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory  
TSCA : All substances listed as active on the TSCA inventory  
AIIC : On the inventory, or in compliance with the inventory  
DSL : All components of this product are on the Canadian DSL  
ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : On the inventory, or in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory

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NZIoC	:	Not in compliance with the inventory
CH INV	:	On the inventory, or in compliance with the inventory
TECI	:	Not in compliance with the inventory

### 15.2 Chemical safety assessment

#### SECTION 16: Other information

##### Full text of H-Statements

H317	:	May cause an allergic skin reaction.
H351	:	Suspected of causing cancer if inhaled.
H372	:	Causes damage to organs through prolonged or repeated exposure.

##### Full text of other abbreviations

Carc.	:	Carcinogenicity
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2004/37/EC	:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work
2006/15/EC	:	Europe. Indicative occupational exposure limit values
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	:	Limit Value - eight hours
2004/37/EC / TWA	:	Long term exposure limit
2006/15/EC / TWA	:	Limit Value - eight hours
ACGIH / TWA	:	8-hour, time-weighted average
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-

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tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1	H317
Carc. 2	H351
STOT RE 1	H372

#### Classification procedure:

Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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