

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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

Product identifier : 750 WL1 Ni

Product code : 300000000062

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

Use of the Sub-
stance/Mixture : wires, sheets metal, tubes

1.3 Details of the supplier of the safety data sheet

Company : Allgemeine Gold- und Silberscheideanstalt AG
Kanzlerstrasse 17
75175 Pforzheim
Germany

E-mail address of person
responsible for the SDS : info.ipds@umicore.com

1.4 Emergency telephone number

Poison Center

Telephone : +49 30 192 40

Hours of operation : 24HRS

Supplier

Emergency telephone num-
ber : 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 88 71 190

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

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.

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

Carcinogenicity, Category 2

H351: Suspected of causing cancer.

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.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

: **Prevention:**
P201 Obtain special instructions before use.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
Response:
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 hazards to the aquatic environment: 100 %

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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	<= 10
Substances with a workplace exposure limit :			
silver	7440-22-4 231-131-3 01-2119555669-21		<= 10

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.
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 : Water mist
Water spray jet
Foam
Carbon dioxide (CO₂)

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Nickel 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.

6.2 Environmental precautions

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

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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 ³ (Nickel)	DE TRGS 900
Peak-limit: excursion factor (category): 8;(II)				
Further information: For nickel compounds classified as Carc 1A or 1B, see TRGS 910 and TRGS 561. An assessment based on the AGW for nickel metal can be carried out if nickel metal only is present. If nickel-containing dusts are formed during activities in which only surface oxidation is to be controlled, they must be treated as nickel-metal-containing mixtures. When using thermal processes in the presence of oxygen, a formation of oxidic nickel compounds must always be assumed. This is the case, for example, in welding (electrodes or wire) and thermal cutting with or from alloys, in the metal injection of alloys, in the melting and casting of alloys, and in the grinding and separation of alloys with 'spark formation'. Further recommendations as well as examples of working methods, for which the AGW or the ERB can be used for assessment, are contained in the IFA workbook (code 0537)., Commission for dangerous substances, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin				
		TWA (Inhalable particulate matter)	1,5 mg/m ³	ACGIH
silver	7440-22-4	TWA	0,01 mg/m ³ (Silver)	2006/15/EC
Further information: Indicative				
		TWA	0,1 mg/m ³	2000/39/EC
		AGW (Inhalable fraction)	0,1 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category): 8;(II)				
Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible)				

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

		TWA (Dust and fume)	0,1 mg/m ³	ACGIH
--	--	---------------------	-----------------------	-------

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Nickel	Consumers	Ingestion	Acute systemic effects	0,012 mg/kg
Remarks:	unit expressed as mg metal/kg			
	Consumers	Inhalation	Acute local effects	0,8 mg/m ³
Remarks:	unit expressed as mg metal/m ³			
	Consumers	Inhalation	Long-term systemic effects	0,00002 mg/m ³
Remarks:	unit expressed as mg metal/m ³			
	Consumers	Ingestion	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 ³
Remarks:	unit expressed as mg metal/m ³			
	Consumers	Skin contact	Long-term local effects	0,035 mg/cm ²
	Workers	Inhalation	Acute local effects	11,9 mg/m ³
Remarks:	unit expressed as mg metal/m ³			
	Workers	Inhalation	Long-term systemic effects	0,05 mg/m ³
Remarks:	unit expressed as mg metal/m ³			
	Workers	Inhalation	Long-term local effects	0,05 mg/m ³
Remarks:	unit expressed as mg metal/m ³			
	Workers	Skin contact	Long-term local effects	0,035 mg/cm ²
silver	Workers	Inhalation	Long-term systemic effects	0,1 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	0,04 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	1,2 mg/kg
zinc	Workers	Inhalation	Long-term systemic effects	5 mg/m ³
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg
	Consumers	Skin contact	Long-term systemic effects	83 mg/kg

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

Substance name	Environmental Compartment	Value
Nickel	Fresh water	0,0071 mg/l
Remarks:	Sensitivity Distribution	
	Marine water	0,0086 mg/l

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

	Sensitivity Distribution	
	Soil	29,9 mg/kg dry weight (d.w.)
	Sensitivity Distribution	
	Sewage treatment plant	0,33 mg/l
	Assessment Factors	
	Sediment	109 mg/kg
silver	Fresh water	0,00004 mg/l
Remarks:	Assessment Factors	
	Marine water	0,00086 mg/l
	Assessment Factors	
	Fresh water sediment	438 mg/kg dry weight (d.w.)
	Assessment Factors	
	Marine sediment	438 mg/kg dry weight (d.w.)
	Assessment Factors	
	Soil	1,41 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,025 mg/l
	Assessment Factors	
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

8.2 Exposure controls

Personal protective equipment

Eye 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

Appearance : massive form

Colour : grey

Odour : odourless

Melting point/range : 850 °C

Flash point : Not applicable

Flammability (solid, gas) : May be combustible at high temperature.

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

Relative density : 14,8
Density : 14,8 g/cm³
Solubility(ies)
Water solubility : insoluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.5 Incompatible materials

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute dermal toxicity : Remarks: No data available

Components:

Nickel:

Acute oral toxicity : LD50 (Rat): > 9.000 mg/kg
Method: OECD Test Guideline 401

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

Acute dermal toxicity : Remarks: data waiving in REACH dossier

silver:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral tox-

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

icity

LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 423

LD50 (Mouse): > 5.000 mg/kg
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 5,16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

Nickel:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

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
Remarks : Based on read across from structural related substance

silver:

Species : Guinea pig
Exposure time : 72 h

750 WL1 Ni

Version 3.0 DE SDS Number: 300000000062 Revision Date: 03.06.2020

Method : OECD Test Guideline 405
Result : No eye irritation

Respiratory or skin sensitisation

Product:

Remarks : May cause sensitisation of susceptible persons by skin contact.

Components:

Nickel:

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

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

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: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo : Species: Mammalian-Animal
Method: OECD Test Guideline 475
Result: negative

silver:

Genotoxicity in vitro : Test Type: Ames test
Test system: Bacteria

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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- Assessment : Overall, there is no consistent evidence of induction of genetic 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/m³
: 0,1 mg/m³
Method : OECD Test Guideline 451

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

Reproductive toxicity

Product:

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

Effects on fertility : Remarks: No data available

Components:

Nickel:

Effects on fertility : Species: Rat
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
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/m³
Remarks: unit expressed as mg metal/m³
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
Remarks: unit expressed as mg metal/kg
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

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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
Assessment : Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Nickel:

Species : Rat, male and female
LOAEL : 4 mg/m³
Application Route : inhalation (dust/mist/fume)
Exposure time : 28 days
Dose : 0; 4; 8; 24
Method : OECD Test Guideline 412

Species : Rat, male and female
LOAEL : 1 mg/m³
Application Route : inhalation (dust/mist/fume)
Exposure time : 13 weeks
Dose : 0; 1; 4; 8
Method : OECD Test Guideline 413

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

Species : Rat
NOAEL : 30 mg/kg
LOAEL : 125 mg/kg
Application Route : Oral
Exposure time : 90 d

750 WL1 Ni

Version 3.0 DE SDS Number: 300000000062 Revision Date: 03.06.2020

Number of exposures : 1/d
Dose : 30; 125; 500
Method : OECD Test Guideline 408

Species : Rat, male and female
NOAEL : 133 µg/m³
LOAEL : 515 µg/m³
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

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
Remarks: unit expressed as mg metal/l
Fresh water
Based on read across from structural related substance

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

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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

M-Factor (Acute aquatic toxicity) : 10

Toxicity to microorganisms : EC50 : 33 mg/l
Exposure time: 30 min
Method: ISO 8192
Remarks: Based on read across from structural related substance
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

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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
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

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to soil dwelling organisms : NOEC: 180 mg/kg
Exposure time: 21 days
Species: Eisenia fetida (earthworms)
Remarks: unit expressed as mg metal/kg

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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

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)

silver:

750 WL1 Ni

Version 3.0 DE SDS Number: 300000000062 Revision Date: 03.06.2020

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

No data available

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
-----------------	---	--

silver:

Bioaccumulation	:	Bioconcentration factor (BCF): 70
-----------------	---	-----------------------------------

12.4 Mobility in soil

No data available

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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 Other adverse effects

Product:

Additional ecological information : No data available

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.
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

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

14.4 Packing group

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, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Nickel (Number on list 27)

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

REACH - List of substances subject to authorisation (Annex XIV) : 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

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 contaminating class (Germany) : WGK 3 highly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
Not applicable
Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
Not applicable
Carcinogenic substances:
portion Class 2: 10 %

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

Mutagenic:
Not applicable
Toxic to reproduction:
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:

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

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

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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
AICS : On the inventory, or in compliance with the inventory
DSL : All components of this product are on the Canadian DSL
ENCS : On the inventory, or in compliance with the inventory
ISHL : On the inventory, or 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
NZIoC : Not in compliance with the inventory
CH INV : On the inventory, or 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.
H372 : Causes damage to organs through prolonged or repeated exposure if inhaled.

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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
2006/15/EC	:	Europe. Indicative occupational exposure limit values
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	:	Limit Value - eight hours
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 - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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 population; 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; 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

750 WL1 Ni

Version 3.0

DE

SDS Number: 300000000062

Revision Date: 03.06.2020

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.

DE / EN