

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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

Product identifier : Gold Solder [>9crt]
Product code : 300000001212
Unique Formula Identifier (UFI) : 4VX1-Y0WE-100K-TW2N

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

Use of the Sub-
stance/Mixture : brazing

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.

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture


Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated exposure, Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	:	Prevention: P260 Do not breathe dust. Response: P314 Get medical advice/ attention if you feel unwell. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

indium

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 40 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 45 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 45 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 55 %

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.

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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)
indium	7440-74-6 231-180-0 01-2120756870-48	STOT RE 1; H372	<= 5
Substances with a workplace exposure limit :			
silver	7440-22-4 231-131-3 01-2119555669-21		<= 20

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 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

None known.

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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 : Metal oxides
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.

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.

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

Gold Solder [>9crt]

Version 8.0 DE SDS Number: 300000001212 Revision Date: 17.05.2022

Hygiene measures : General industrial hygiene practice. Wash hands before breaks and at the end of workday.

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) : 13, Non Combustible Solids

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
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
Further information: Indicative				
		AGW (Inhalable fraction)	0,1 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category): 8;(II)				
		TWA (Dust and fume)	0,1 mg/m ³	ACGIH
indium	7440-74-6	AGW (Alveolate fraction)	0,0001 mg/m ³ (Indium)	DE TRGS 900
Peak-limit: excursion factor (category): 8;(II)				
		TWA	0,1 mg/m ³ (Indium)	ACGIH
		TWA	0,1 mg/m ³ (Indium)	ACGIH

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
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
Copper	Workers	Dermal	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Acute systemic effects	18,2 mg/m ³

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

			fects	
	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/m3
	Consumers	Oral	Acute systemic effects	0,16 mg/kg
	Consumers	Oral	Long-term systemic effects	0,16 mg/kg
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
zinc	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	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/m3
	Workers	Dermal	Long-term systemic effects	0,12 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Copper	Fresh water	0,0078 mg/l
Remarks:	Sensitivity Distribution	
	Marine water	0,0052 mg/l
	Sensitivity Distribution	
	Fresh water sediment	87 mg/kg dry weight (d.w.)
	Sensitivity Distribution	
	Soil	65,5 mg/kg dry weight (d.w.)
	Sensitivity Distribution	
	Sewage treatment plant	0,23 mg/l
	Assessment Factors	
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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

		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
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.)

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

Physical state : massive form

Colour : grey

Odour : odourless

Melting point/range : 725 - 835 °C

Flammability : The product is not flammable.

Flash point : Not applicable

pH : substance/mixture is non-soluble (in water)

Solubility(ies)
Water solubility : insoluble

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

Density : 13,4 g/cm³ (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.

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:

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:

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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

Skin corrosion/irritation

Product:

Remarks : No data available

Components:

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:

indium:

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

silver:

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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

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:

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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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:

indium:

Remarks : No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Components:

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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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
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
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:

indium:

Assessment : Causes damage to organs through prolonged or repeated

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

exposure.

Repeated dose toxicity

Components:

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/m³
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

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/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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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:

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

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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:

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:

indium:

Biodegradability : Remarks: data waiving in REACH dossier

12.3 Bioaccumulative potential

Components:

indium:

Gold Solder [>9crt]

Version 8.0 DE SDS Number: 300000001212 Revision Date: 17.05.2022

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..

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

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.

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

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

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) : Not applicable

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 : Not applicable

Gold Solder [>9crt]

Version 8.0

DE

SDS Number: 300000001212

Revision Date: 17.05.2022

control of major-accident hazards involving dangerous substances.

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

TA Luft List (Germany) : Total dust:
Not applicable
Inorganic substances in powdered form:
portion Class 3: 35 %

Inorganic substances in vapour or gaseous form:
Not applicable
Organic Substances:
Not applicable
Carcinogenic substances:
Not applicable
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 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
AIIIC : 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
NZIoC : Not in compliance with the inventory
CH INV : On the inventory, or in compliance with the inventory

Gold Solder [>9crt]

Version 8.0 DE SDS Number: 300000001212 Revision Date: 17.05.2022

TECI : Not in compliance with the inventory

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

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

Full text of other abbreviations

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)
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
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; AIIIC - 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 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; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA

Gold Solder [>9crt]

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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

STOT RE 2

H373

Classification procedure:

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.

DE / EN