according to Regulation (EC) No. 1907/2006



Coloured Gold Solder cdf [Ag10Au90Cu12In10Zn10]

Version 3.4 DE SDS Number: 300000001212 Revision Date: 21.07.2018

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

Product identifier : Coloured Gold Solder cdf [Ag10Au90Cu12In10Zn10]

Trade name : 750 L3 cdf; 750 L2 cdf; 750 L1 cdf; 750 L0 cdf; 585 L3 cdf;

585 L2 cdf; 585 L1 cdf; 417 L1 cdf; 375 L1 cdf; 375 WL2 cdf

Product code : 30000001212

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

Use of the Substance/Mixture : Industrial use brazing

1.3 Details of the supplier of the safety data sheet

Company : Allgemeine Gold- und Silberscheideanstalt

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)



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Specific target organ toxicity - repeated

exposure, Category 1

H372: Causes damage to organs through pro-

longed or repeated exposure.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H372 Causes damage to organs through prolonged or re-

peated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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 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

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)



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	Index-No. Registration number		
indium	7440-74-6 231-180-0 01-2120756870-48	STOT RE 1; H372 Aquatic Chronic 2; H411	<= 15
Substances with a workplace	e exposure limit :		
silver	7440-22-4		<= 15
	01-2119555669-21		

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.

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

Specific hazards during fire-

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.



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Hazardous combustion prod: :

ucts

Metal oxides

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.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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 ap-

plication area.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

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.

Advice on common storage : No materials to be especially mentioned.



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

materials or hazardous materials causing chronic effects

Further information on stor-

age 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/m3 (Silver)	2006/15/EC
Further information	Indicative			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
copper	Workers	Skin contact	Acute systemic effects	273 mg/kg
	Workers	Inhalation	Acute systemic effects	18,2 mg/m3
	Consumers	Skin contact	Long-term systemic effects	137 mg/kg
	Consumers	Skin contact	Acute systemic effects	273 mg/kg
	Consumers	Inhalation	Acute systemic effects	18,2 mg/m3
	Consumers	Ingestion	Acute systemic effects	0,16 mg/kg
	Consumers	Ingestion	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	Ingestion	Long-term systemic effects	1,2 mg/kg
zinc	Workers	Inhalation	Long-term systemic effects	5 mg/m3
	Workers	Skin contact	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m3
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg
	Consumers	Skin contact	Long-term systemic	83 mg/kg



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	effects	

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

Substance name	Environmental Compartment	Value
copper	Fresh water	0,0078 mg/l
	Marine water	0,0052 mg/l
	Fresh water sediment	87 mg/kg dry weight (d.w.)
	Soil	65,5 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,23 mg/l
silver	Fresh water	0,00004 mg/l
	Marine water	0,00086 mg/l
	Fresh water sediment	438 mg/kg dry weight (d.w.)
	Marine sediment	438 mg/kg dry weight (d.w.)
	Soil	1,41 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,025 mg/l
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 : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Leather gloves

Skin and body protection : Choose body protection according to the amount and con-

centration 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 : yellow

Odour : odourless

Melting point/range : 775 - 835 °C

Flash point : Not applicable

Flammability (solid, gas) : The product is not flammable.

according to Regulation (EC) No. 1907/2006



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Relative density : 14,7 - 15,1

Density : 14,7 - 15,1 g/cm3

Solubility(ies)

Water solubility : insoluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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 : None known.

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:

indium:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

silver:

according to Regulation (EC) No. 1907/2006



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Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

Assessment: The substance or mixture has no acute oral tox-

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 inhala-

tion 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

Product:

Remarks: No data available

Components:

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:

silver:

Species: Guinea pig Exposure time: 72 h

Method: OECD Test Guideline 405

Result: No eye irritation

according to Regulation (EC) No. 1907/2006



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Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

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:

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 sub-

stance

Test Type: Micronucleus test Test system: mammalian cells Method: OECD Test Guideline 487

Result: negative

Remarks: Based on read across from structural related sub-

stance

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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sessment toxicity with relevance to humans.

Carcinogenicity

Product:

Remarks: No data available

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Components:

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 develop-

ment were detected.

GLP: yes

Effects on foetal develop-

ment

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:

according to Regulation (EC) No. 1907/2006



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Remarks: No data available

STOT - repeated exposure

Product:

Remarks: No data available

Components:

indium:

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

Repeated dose toxicity

Components:

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

Further information

Product:

Remarks: No data available

according to Regulation (EC) No. 1907/2006



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SECTION 12: Ecological information

12.1 Toxicity

Product:

Components:

indium:

Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : Toxic to aquatic life with long lasting 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 tox-

icity)

Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Remarks: No toxicity at the limit of solubility

Toxicity to soil dwelling or-

ganisms

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



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12.3 Bioaccumulative potential

Components:

silver:

Bioaccumulation Bioconcentration factor (BCF): 70

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

: This substance/mixture contains no components considered Assessment

> to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

mation

Additional ecological infor- : Harmful to aquatic life with long lasting effects.

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.

The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal 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 as unused product. Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good



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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)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

Regulation (EC) No 649/2012 of the European Parlia-

ment and the Council concerning the export and import

of dangerous chemicals

Not applicable

: Not applicable

Not applicable

Not applicable

Not applicable

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)

not water endangering

Classification according to AwSV, Annex 1 (2.2)

TA Luft List (Germany) Total dust:

Not applicable

Inorganic substances in powdered form:

portion Class 3: 12 %



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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:

CH INV : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

AICS : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : Not On TSCA 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.

H411 : Toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006



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Full text of other abbreviations

Aquatic Chronic : Chronic aquatic toxicity

STOT RE : Specific target organ toxicity - repeated exposure 2006/15/EC : Europe. Indicative occupational exposure limit values

2006/15/EC / TWA : Limit Value - eight hours

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; 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: Classification procedure:

STOT RE 1 H372 Calculation method Aquatic Chronic 3 H412 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