

# Safety data sheet

according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

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

### 1.1 Product identifier

Trade name: **ISO-Core "RA" ,SnPb(Cu)(Ag)****Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%****Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2**

### UFI:

ISO-Core "RA" Sn60Pb36Ag4: 0KN2-43JY-E00Q-YVTC

ISO-Core "RA" Sn62Pb38Ag2: 1HN2-M3VK-4007-9J79

ISO-Core "RA" Sn60Pb38Cu2: 0JJ9-C0UR-K00T-M40P

ISO-Core "RA" Sn60Pb39Cu1: 0JJ9-C0UR-K00T-M40P

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

No further relevant information available.

#### Application of the substance / the mixture

Brazing alloy

Soldering flux

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

#### Manufacturer/Supplier:

Felder GmbH

Im Lipperfeld 11

D-46047 Oberhausen

Tel.: +49 (0)208/ 85035-0

Fax.: +49 (0)208/ 26080

<http://www.felder.de>e-mail: [info@felder.de](mailto:info@felder.de)

#### Further information obtainable from:

lab

(mo-thu. 8:00 a.m. - 4:00 p.m./ fr. 8:00 a.m. - 1:00 p.m.)

email: [mprobst@felder.de](mailto:mprobst@felder.de)

### 1.4 Emergency telephone number:

Information which should have been included on the identification label.

**(Annex I No. 1.3.4 REGULATION (EC) No 1272/2008)**

Metals in massive form, alloys, mixtures containing polymers and mixtures containing elastomers do not require a label

according to this Annex, if they do not present a hazard to human health by inhalation, ingestion or contact with skin or

to the aquatic environment in the form in which they are placed on the market, although classified as hazardous in accordance with the criteria of this Annex.

see chapter 2.2

EuPCS: PC-TEC-24

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 1A H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified according to the CLP regulation. A label is not required (CLP Annex I, 1.3.4.1.)

The information according to CLP Annex I, 1.3.4.2. will be announced in section 2.2.

(Contd. on page 2)

— EU —

# Safety data sheet

according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

Trade name: ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 1)

**Hazard pictograms**

GHS08

**Signal word** *Danger***Hazard-determining components of labelling:***lead***Hazard statements***H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.**H372 Causes damage to organs through prolonged or repeated exposure.***Precautionary statements***P260 Do not breathe dust/fume/gas/mist/vapours/spray.**P263 Avoid contact during pregnancy and while nursing.**P264 Wash thoroughly after handling.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***Additional information:***Contains Rosin. May produce an allergic reaction.**Restricted to professional users.***2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** *Not applicable.***vPvB:** *Not applicable.***SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** *Mixture: consisting of the following components.***Dangerous components:**

CAS: 7440-22-4 EINECS: 231-131-3 Reg.nr.: 01-2119555669-21	silver	substance with a Community workplace exposure limit	0-<4%
CAS: 7440-50-8 EINECS: 231-159-6 Index number: 029-024-00-X Reg.nr.: 01-2119480154-42	copper	⚠ Aquatic Chronic 2, H411	0-<2%
CAS: 7439-92-1 EINECS: 231-100-4 Index number: 082-014-00-7 Reg.nr.: 01-2119513221-59	lead	⚠ Repr. 1A, H360FD-H362; STOT RE 1, H372	<40%
CAS: 8050-09-7 EINECS: 232-475-7 Index number: 650-015-00-7 Reg.nr.: 01-2119480418-32	Rosin	⚠ Skin Sens. 1, H317	<1%

**SVHC**7439-92-1 | *lead***Additional information:** *For the wording of the listed hazard phrases refer to section 16.***SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** *Take affected persons out into the fresh air.***After inhalation:** *Supply fresh air; consult doctor in case of complaints.***After skin contact:***After contact with the molten product, cool rapidly with cold water.**Do not pull solidified product off the skin.**Seek medical treatment.*

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

Trade name: ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 2)

**After eye contact:** *Rinse opened eye for several minutes under running water.*

**After swallowing:** *Rinse out mouth and then drink plenty of water.*

**4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

**4.3 Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. *Fight larger fires with water spray or alcohol resistant foam.*

**5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

#### 5.3 Advice for firefighters

**Protective equipment:** *Wear self-contained respiratory protective device.*

### SECTION 6: Accidental release measures

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

*Use respiratory protective device against the effects of fumes/dust/aerosol.*

**6.2 Environmental precautions:** *Do not allow product to reach sewage system or any water course.*

**6.3 Methods and material for containment and cleaning up:** *Allow to solidify. Pick up mechanically.*

#### 6.4 Reference to other sections

*See Section 7 for information on safe handling.*

*See Section 8 for information on personal protection equipment.*

*See Section 13 for disposal information.*

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

*Extractors are required on all machines used for thermal processing or splinter removal processes.*

*Provide suction extractors if dust is formed.*

*Any unavoidable deposit of dust must be regularly removed.*

*Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.*

**Information about fire - and explosion protection:** *No special measures required.*

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

##### Storage:

**Requirements to be met by storerooms and receptacles:** *No special requirements.*

**Information about storage in one common storage facility:** *Store away from foodstuffs.*

**Further information about storage conditions:** *Store in dry conditions.*

**Storage class:** 6.1 D

**7.3 Specific end use(s)** *No further relevant information available.*

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

##### 7440-31-5 tin

MAK (Germany)

vgl. Abschn. IIb

OEL (Ireland)

Short-term value: 0.2\*\* mg/m<sup>3</sup>Long-term value: 2\* 0.1\*\* mg/m<sup>3</sup>

IOELV, \*metal, oxide, inorg. compds., \*\*org. compds.

##### 7439-92-1 lead

AGW (EU)

Long-term value: 0.15 mg/m<sup>3</sup>

BOELV (EU)

Long-term value: 0.15 mg/m<sup>3</sup>

as Pb

MAK (Germany)

vgl. Abschn. XII

OEL (Ireland)

Long-term value: 0.15 mg/m<sup>3</sup>

Repr1A, BOELV

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

**Trade name: ISO-Core "RA" ,SnPb(Cu)(Ag)**  
**Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%**  
**Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2**

(Contd. of page 3)

<b>7440-22-4 silver</b>	
IOELV (EU)	Long-term value: 0.1 mg/m <sup>3</sup>
AGW (Germany)	Long-term value: 0.1 E mg/m <sup>3</sup> 8(II);DFG, EU
WEL (Great Britain)	Long-term value: 0.1 mg/m <sup>3</sup>
OEL (Ireland)	Long-term value: 0.1 mg/m <sup>3</sup> IOELV
<b>7440-50-8 copper</b>	
MAK (Germany)	Long-term value: 0.01 A mg/m <sup>3</sup> als Cu
WEL (Great Britain)	Short-term value: 2** mg/m <sup>3</sup> Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists (as Cu)
OEL (Ireland)	Long-term value: 0.2* 1** mg/m <sup>3</sup> *fume **dusts and mists
<b>8050-09-7 Rosin</b>	
MAK (Germany)	vgl.Abschn.IV
WEL (Great Britain)	Short-term value: 0.15 mg/m <sup>3</sup> Long-term value: 0.05 mg/m <sup>3</sup> Sen

**Regulatory information**

MAK (Germany): MAK- und BAT-Liste

OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

BOELV (EU): EU 2022/431

IOELV (EU): (EU) 2019/1831

AGW (Germany): TRGS 900

WEL (Great Britain): EH40/2020

**recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:**

7440-31-5 tin: NIOSH 7300, 7301, 7303(E), OSHA ID-121, ISO15202(E,F), MTA/MA-025/A92(ESP)

7440-50-8 copper: BIA 7755 (D), NIOSH 7301(E), MétroPol Fiche 003(F), MTA/MA-025/A92(ESP)

7440-22-4 silver: ISO 15202(F, E), BIA 8600(D), NIOSH 7301(E)

7439-92-1 lead: NIOSH 7702(E) "lead"

**Ingredients with biological limit values:****7439-92-1 lead**

BAT (EU)	70 µg/dl blood lead
BGW (Germany)	300 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: keine Beschränkung Parameter: Blei Frauen < 45 J.
	400 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: keine Beschränkung Parameter: Blei

**Regulatory information** BGW (Germany): TRGS 903**Additional information:** The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation.

Remove the fumes by means of suitable suction devices.

**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Pregnant women should strictly avoid inhalation or skin contact.

Do not eat, drink, smoke or sniff while working.

**Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter P3

(Contd. on page 5)

— EU —

# Safety data sheet

according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

**Trade name:** ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 4)

**Hand protection**

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**Material of gloves**

*heat-resistant glove with nitrile inner glove.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.*

*Recommended thickness of the material:  $\geq 0.2$  mm*

**Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

*The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions.*

*Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.*

*Value for the permeation: Level  $\leq 6$*

**As protection from splashes gloves made of the following materials are suitable:** *Nitrile rubber, NBR*

**Eyeface protection** *Safety glasses*

**Body protection:** *Protective work clothing*

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information**

<b>Colour:</b>	<i>Silver-coloured</i>
<b>Odour:</b>	<i>Characteristic</i>
<b>Odour threshold:</b>	<i>Not determined.</i>
<b>Melting point/freezing point:</b>	<i>Not applicable</i>
<b>Boiling point or initial boiling point and boiling range</b>	<i>Undetermined.</i>
<b>Flammability</b>	<i>Not determined.</i>
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
<b>Flash point:</b>	<i>Not applicable.</i>
<b>Decomposition temperature:</b>	<i>Not determined.</i>
<b>pH</b>	<i>Not applicable.</i>
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	<i>Not applicable.</i>
<b>Dynamic:</b>	<i>Not applicable.</i>
<b>Solubility</b>	
<b>water:</b>	<i>Insoluble.</i>
<b>Partition coefficient n-octanol/water (log value)</b>	<i>Not determined.</i>
<b>Vapour pressure:</b>	<i>Not applicable.</i>
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	<i>8.5 g/cm<sup>3</sup></i>
<b>Relative density</b>	<i>Not determined.</i>
<b>Vapour density</b>	<i>Not applicable.</i>
<b>Particle characteristics</b>	<i>See item 3.</i>

**9.2 Other information****Appearance:**

**Form:** *Solid*

**Important information on protection of health and environment, and on safety.**

**Auto-ignition temperature:** *Product is not selfigniting.*

**Explosive properties:** *Product does not present an explosion hazard.*

**Solvent content:**

**Organic solvents:** *0.0 %*

**VOC (EC)** *0.00 %*

**Solids content:** *100.0 %*

**Change in condition**

**Evaporation rate** *Not applicable.*

(Contd. on page 6)

# Safety data sheet

according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

Trade name: ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 5)

## Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point.

Reacts with acids, alkalis and oxidising agents.

Develops toxic gases/fumes.

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

### 10.6 Hazardous decomposition products:

Toxic metal oxide smoke

Leadoxide vapour

## SECTION 11: Toxicological information

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

**Acute toxicity** Based on available data, the classification criteria are not met.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

#### Reproductive toxicity

May damage fertility. May damage the unborn child. May cause harm to breast-fed children.

**STOT-single exposure** Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

Trade name: ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 6)

**12.3 Bioaccumulative potential** *No further relevant information available.*

**12.4 Mobility in soil** *No further relevant information available.*

**12.5 Results of PBT and vPvB assessment**

**PBT:** *Not applicable.*

**vPvB:** *Not applicable.*

**12.6 Endocrine disrupting properties** *For information on endocrine disrupting properties see section 11.*

**12.7 Other adverse effects**

**Additional ecological information:**

**General notes:**

*The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary*

*Not hazardous for water.*

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Recommendation** *Contact manufacturer for recycling information.*

**European waste catalogue**

*17 04 09\*: metal waste contaminated with hazardous substances*

*HP 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity*

*HP 10: Toxic for reproduction*

*spool:*

*15 01 02: plastic packaging*

*overpack:*

*15 01 01: paper and cardboard packaging*

**Uncleaned packaging:** *void.*

**Recommendation:** *Disposal must be made according to official regulations.*

### SECTION 14: Transport information

**14.1 UN number or ID number**

**ADR, ADN, IMDG, IATA** *Void*

**14.2 UN proper shipping name**

**ADR, ADN, IMDG, IATA** *Void*

**14.3 Transport hazard class(es)**

**ADR, ADN, IMDG, IATA**

**Class** *Void*

**14.4 Packing group**

**ADR, IMDG, IATA** *Void*

**14.5 Environmental hazards:**

**Marine pollutant:** *No*

**14.6 Special precautions for user** *Not applicable.*

**14.7 Maritime transport in bulk according to IMO**

**instruments** *Not applicable.*

**UN "Model Regulation":** *Void*

### SECTION 15: Regulatory information

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

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

**REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)** *None of the ingredients are listed.*

**REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 63, 30*

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

7439-92-1 | *lead*

(Contd. on page 8)

— EU —

# Safety data sheet

## according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 07.06.2022

Version number 4 (replaces version 3)

Revision: 21.03.2022

**Trade name:** ISO-Core "RA" ,SnPb(Cu)(Ag)  
 Sn 60,0 - 67,0%, Pb 33,0 - 40,0%, Cu 0 - 2,2%, Ag 0 - 4,0%  
 Sn60Pb36Ag4, Sn60Pb38Cu2, Sn60Pb39Cu1, Sn62Pb36Ag2

(Contd. of page 7)

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Additional classification according to Decree on Hazardous Materials, Annex II:**

Can cause cancer if present as respirable dust.

**Information about limitation of use:**

Employment restrictions concerning women of child-bearing age must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

**Waterhazard class:** Generally not hazardous for water.**Other regulations, limitations and prohibitive regulations****Substances of very high concern (SVHC) according to REACH, Article 57**

7439-92-1 | lead

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Reasons for changes:**

26.08.2019: section 3, 13, 15

01.02.2021: section 1, 3, 7, 15, 16

21.03.2022: section 8, 15

**Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:****Relevant phrases**

H317 May cause an allergic skin reaction.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

**Contact:** Dr. M. Probst**Version number of previous version:** 3**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1A: Reproductive toxicity – Category 1A

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**Safety data sheet SD3454**