



18. August 2017

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: SAC ALG	Solder wire Sn96,5 Ag3 Cu0,5 with aluminium flux
1.) IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1.) Product identifier	
Trade name :	soldering wire
Registration number (REACH):	not relevant (mixture)
CAS number:	not relevant (mixture)
1.2.) Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses:	Solder
1.3.) Details of the supplier of the safety data sheet	
Supplier:	EDSYN GMBH EUROPA
Address:	Finkenweg 2 D 97892 Kreuzwertheim
	Tel. 09342 - 6413 Fax: 09342 – 6417
1.4.) Emergency telephone number	As above or next toxicological information centre.
2.) HAZARDS IDENTIFICATION	
2.1.) Classification of the substance or mixture	
Classification according to Regulation (EC) No 1272/2008 (CLP):	This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.
2.2.) Label elements	
Labelling according to Regulation (EC) No 1272/2008 (CLP):	not required
2.3.) Other hazards	There is no additional information.
3.) COMPOSITION/INFORMATION ON INGREDIENTS	
3.1.) Substances	Not relevant (mixture)



3.2.) Mixtures

Description of the mixture

Hazardous ingredients acc. to GHS				
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Tin	CAS No 7440-31-5 EC No 231-141-8	≥ 50		
Silver	CAS No 7440-22-4 EC No 231-131-3	≤ 10		
Copper	CAS No 7440-50-8 EC No 231-159-6	≤ 10		

4.) FIRST AID MEASURES

4.1.) Description of first aid measures

General notes:

In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation:

Provide fresh air.

Following skin contact:

Wash with plenty of soap and water.

Following eye contact:

Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.

Following ingestion:

Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

Notes for the doctor:

none

4.2.) Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3.) Indication of any immediate medical attention and special treatment needed

none

5.) FIREFIGHTING MEASURES

5.1.) Extinguishing media

Suitable extinguishing media:

dry sand, use metal fire powder to extinguish.

Unsuitable extinguishing media:

water

5.2.) Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.

Hazardous combustion products:

nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)



18. August 2017

<p>5.3.) Advice for firefighters</p> <p>Special protective equipment for firefighters:</p>	<p>In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.</p> <p>Self-contained breathing apparatus (EN 133)</p>
<p>6.) ACCIDENTAL RELEASE MEASURES</p> <p>6.1.) Personal precautions, protective equipment and emergency procedures</p> <p>For non-emergency personnel:</p> <p>For emergency responders:</p> <p>6.2.) Environmental precautions</p> <p>6.3.) Methods and material for containment and cleaning up</p> <p>Advices on how to contain a spill:</p> <p>Advices on how to clean up a spill:</p> <p>Other information relating to spills and releases:</p> <p>6.4.) Reference to other sections</p>	<p>Ventilate affected area. Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.</p> <p>Wear breathing apparatus if exposed to vapours/dust/spray/gases.</p> <p>Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.</p> <p>take up mechanically.</p> <p>take up mechanically.</p> <p>Place in appropriate containers for disposal. Ventilate affected area.</p> <p>Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.</p>
<p>7.) HANDLING AND STORAGE</p> <p>7.1) Precautions for safe handling</p> <p>Measures to prevent fire as well as aerosol and dust generation:</p> <p>Specific notes/details:</p> <p>Measures to protect the environment:</p> <p>Advice on general occupational hygiene:</p>	<p>Use local and general ventilation.</p> <p>None.</p> <p>Avoid release to the environment.</p> <p>Do not to eat, drink and smoke in work areas. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended. Remove contaminated clothing and protective equipment before entering eating areas.</p>



18. August 2017

<p>7.2.) Conditions for safe storage, including any incompatibilities</p> <p>Flammability hazards:</p> <p>Incompatible substances or mixtures:</p> <p>Protect against external exposure, such as:</p> <p>Consideration of other advice:</p> <p>Ventilation requirements:</p> <p>Packaging compatibilities:</p> <p>7.3.) Specific end use(s)</p>	<p>None.</p> <p>Incompatible materials: see section 10.</p> <p>none.</p> <p>Keep away from food, drink and animal feedingstuffs.</p> <p>Provision of sufficient ventilation.</p> <p>Keep only in original container.</p> <p>No information available.</p>
---	---

<p>8.) EXPOSURE CONTROLS / PERSONAL PROTECTION</p> <p>8.1.) Control parameters</p>	<p>No data available.</p>
--	---------------------------

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Notation	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Source
EU	silver	7440-22-4		IOELV		0,1			2000/39/EC
EU	tin	7440-31-5		IOELV		2			91/322/EEC
GB	silver	7440-22-4		WEL		0,01			EH40/2005
GB	copper	7440-50-8	dm	WEL		1		2	EH40/2005
GB	copper	7440-50-8	fume	WEL		0,2			EH40/2005

Notation:

dm as dusts and mists

fume as fume

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average



18. August 2017

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
TIN	7440-31-5	DNEL	133,3 mg/kg	human, dermal	worker (industry)	acute – systemic effects
Tin	7440-31-5	DNEL	11,75 mg/m ³	human, inhalatory	worker (industry)	acute – systemic effects
Tin	7440-31-5	DNEL	133,3 mg/kg	human, dermal	worker (industry)	chronic – systemic effects
Tin	7440-31-5	DNEL	11,75 mg/m ³	human, inhalatory	worker (industry)	chronic – systemic effects
Silver	7440-22-4	DNEL	0,1 mg/m ³	human, inhalatory	worker (industry)	chronic – systemic effects
Copper	7440-50-8	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	acute – local effects
Copper	7440-50-8	DNEL	273 mg/kg	human, dermal	worker (industry)	acute – systemic effects
Copper	7440-50-8	DNEL	20 mg/m ³	human, inhalatory	worker (industry)	acute – systemic effects
Copper	7440-50-8	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	chronic – local effects
Copper	7440-50-8	DNEL	137 mg/kg	human, dermal	worker (industry)	chronic – systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Silver	7440-22-4	PNEC	0,04 µg/l	aquatic organisms	freshwater	short-term (single instance)
Silver	7440-22-4	PNEC	0,86 µg/l	aquatic organisms	marine water	short-term (single instance)
Silver	7440-22-4	PNEC	0,025 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Silver	7440-22-4	PNEC	438,1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Silver	7440-22-4	PNEC	438,1 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Silver	7440-22-4	PNEC	1,41 mg/kg	terrestrial organisms	soil	short-term (single instance)
Copper	7440-50-8	PNEC	7,8 µg/l	aquatic organisms	freshwater	short-term (single instance)



18. August 2017

Relevant PNECs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Organisms	Environmental compartment	Exposure time
Copper	7440-50-8	PNEC	5,2 µg/l	aquatic organisms	marine water	short-term (single instance)
Copper	7440-50-8	PNEC	230 µg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Copper	7440-50-8	PNEC	87 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Copper	7440-50-8	PNEC	676 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Copper	7440-50-8	PNEC	65 mg/kg	terrestrial organisms	soil	short-term (single instance)

<p>8.2.) Exposure controls</p> <p>Appropriate engineering controls:</p> <p>Individual protection measures (personal protective equipment)</p> <p>Eye-/ face protection:</p> <p>Hand protection:</p> <p>Respiratory protection:</p> <p>Thermal hazards:</p> <p>Environmental exposure controls:</p>	<p>General ventilation.</p> <p>Wear eye / face protection.</p> <p>Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. Wear protective gloves against thermal risks (heat and/or fire).</p> <p>In case of formation of gases/vapours/mists.</p> <p>Wear protective gloves against thermal risks (heat and/or fire). Wear protective clothing for protection against heat and flame.</p> <p>Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.</p>
<p>9.) <u>PHYSICAL AND CHEMICAL PROPERTIES</u></p> <p>9.1.) Information on basic physical and chemical properties</p> <p><u>Appearance</u></p> <p>Physical state:</p> <p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p>	<p>solid</p> <p>solid matter</p> <p>according to product specification</p> <p>odourless</p> <p>these information are not available.</p>



<p><u>Other safety parameters</u></p> <p>pH (value):</p> <p>Melting point / freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas):</p> <p>Explosion limits of dust clouds:</p> <p>Vapour pressure: Density: Vapour density: Relative density:</p> <p><u>Solubility(ies)</u></p> <p>Water solubility:</p> <p><u>Partition coefficient</u></p> <p>n-octanol/water (log KOW): Auto-ignition temperature: Decomposition temperature:</p> <p><u>Viscosity</u></p> <p>Kinematic viscosity: Dynamic viscosity: Explosive properties: Oxidising properties:</p>	<p>these information are not available.</p> <p>these information are not available. these information are not available. not applicable. these information are not available. non-flammable</p> <p>not determined</p> <p>these information are not available. these information are not available. these information are not available. these information are not available.</p> <p>not miscible in any proportion.</p> <p>these information are not available. these information are not available. these information are not available.</p> <p>not relevant</p> <p>these information are not available. these information are not available. not explosive. shall not be classified as oxidising.</p>
<p>10.) <u>STABILITY AND REACTIVITY</u></p> <p>10.1.) Reactivity</p> <p>10.2.) Chemical stability</p> <p>10.3.) Possibility of hazardous reactions</p> <p>10.4.) Conditions to avoid</p> <p>10.5.) Incompatible materials</p> <p>10.6.) Hazardous decomposition products</p>	<p>This material is not reactive under normal ambient conditions.</p> <p>The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</p> <p>No known hazardous reactions.</p> <p>There are no specific conditions known which have to be avoided.</p> <p>There is no additional information.</p> <p>Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.</p> <p>Hazardous combustion products: see section 5.</p>



18. August 2017

<p>11.) TOXIKOLOGICAL INFORMATION</p> <p>11.1.) Information on toxicological effects</p> <p>Classification procedure:</p> <p>Classification according to GHS (1272/2008/EC, CLP):</p> <p>Acute toxicity:</p>	<p>Test data are not available for the complete mixture.</p> <p>The method for classification of the mixture is based on ingredients of the mixture (additivity formula).</p> <p>This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.</p> <p>Shall not be classified as acutely toxic.</p>																																				
<p>Acute toxicity of components of the mixture</p> <table border="1"> <thead> <tr> <th>Name of substance</th> <th>CAS No</th> <th>Exposure route</th> <th>Endpoint</th> <th>Value</th> <th>Species</th> </tr> </thead> <tbody> <tr> <td>Tin</td> <td>7440-31-5</td> <td>oral</td> <td>LD50</td> <td>>2.000 mg/kg</td> <td>rat</td> </tr> <tr> <td>Tin</td> <td>7440-31-5</td> <td>inhalation: dust/mist</td> <td>LC50</td> <td>>4,75 mg/l/4h</td> <td>rat</td> </tr> <tr> <td>Tin</td> <td>7440-31-5</td> <td>dermal</td> <td>LD50</td> <td>>2.000 mg/kg</td> <td>rat</td> </tr> <tr> <td>Silver</td> <td>7440-22-4</td> <td>oral</td> <td>LD50</td> <td>>5.110 mg/kg</td> <td>rat</td> </tr> <tr> <td>Silver</td> <td>7440-22-4</td> <td>dermal</td> <td>LD50</td> <td>>2.000 mg/kg</td> <td>rat</td> </tr> </tbody> </table>		Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Tin	7440-31-5	oral	LD50	>2.000 mg/kg	rat	Tin	7440-31-5	inhalation: dust/mist	LC50	>4,75 mg/l/4h	rat	Tin	7440-31-5	dermal	LD50	>2.000 mg/kg	rat	Silver	7440-22-4	oral	LD50	>5.110 mg/kg	rat	Silver	7440-22-4	dermal	LD50	>2.000 mg/kg	rat
Name of substance	CAS No	Exposure route	Endpoint	Value	Species																																
Tin	7440-31-5	oral	LD50	>2.000 mg/kg	rat																																
Tin	7440-31-5	inhalation: dust/mist	LC50	>4,75 mg/l/4h	rat																																
Tin	7440-31-5	dermal	LD50	>2.000 mg/kg	rat																																
Silver	7440-22-4	oral	LD50	>5.110 mg/kg	rat																																
Silver	7440-22-4	dermal	LD50	>2.000 mg/kg	rat																																
<p>Skin corrosion/irritation:</p> <p>Serious eye damage/eye irritation:</p> <p>Respiratory or skin sensitisation:</p> <p>Germ cell mutagenicity:</p> <p>Carcinogenicity:</p> <p>Reproductive toxicity:</p> <p>Specific target organ toxicity – single exposure:</p> <p>Specific target organ toxicity – repeated exposure:</p> <p>Aspiration hazard:</p>	<p>Shall not be classified as corrosive/irritant to skin.</p> <p>Shall not be classified as seriously damaging to the eye or eye irritant.</p> <p>Shall not be classified as a respiratory or skin sensitiser.</p> <p>Shall not be classified as germ cell mutagenic.</p> <p>Shall not be classified as carcinogenic.</p> <p>Shall not be classified as a reproductive toxicant.</p> <p>Shall not be classified as a specific target organ toxicant (single exposure).</p> <p>Shall not be classified as a specific target organ toxicant (repeated exposure).</p> <p>Shall not be classified as presenting an aspiration hazard.</p>																																				
<p>12.) ECOLOGICAL INFORMATION</p> <p>12.1.) Toxicity</p> <p>Aquatic toxicity (acute):</p>	<p>Test data are not available for the complete mixture.</p>																																				



18. August 2017

Aquatic toxicity (acute) of components of the mixture

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Tin	7440-31-5	LC50	>12,4 µg/l	fish	96 hours
Tin	7440-31-5	ErC50	>19,2 µg/l	algae	72 hours
Tin	7440-31-5	EC50	>19,2 µg/l	algae	72 hours
Silver	7440-22-4	LC50	1,2 µg/l	fish	96 hours

Aquatic toxicity (chronic): I Test data are not available for the complete mixture.

Aquatic toxicity (chronic) of components of the mixture

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Tin	7440-31-5	EC50	1.303 µg/l	aquatic invertebrates	7 d
Tin	7440-31-5	LC50	>3.200 µg/l	aquatic invertebrates	7 d
Silver	7440-22-4	EC50	0,8 µg/l	aquatic invertebrates	7 d

12.2.) Persistence and degradability

Biodegradation: Data are not available.

Persistence: Data are not available.

12.3.) Bioaccumulative potential

Data are not available.

12.4.) Mobility in soil

Data are not available.

12.5.) Results of PBT- and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6.) Other adverse effects

Data are not available.

Endocrine disrupting potential: None of the ingredients are listed.

Remarks

Water hazard class – WHC (Wassergefährdungsklasse): 1 (Slightly hazardous to water).

13.) DISPOSAL CONSIDERATIONS

13.1.) Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.



18. August 2017

<p>Sewage disposal-relevant information:</p> <p>Waste treatment of containers/ packagings:</p> <p>Remarks</p>	<p>Do not empty into drains.</p> <p>Handle contaminated packages in the same way as the substance itself.</p> <p>Please consider the relevant national or regional provisions.</p>				
<p>14.) <u>TRANSPORT INFORMATION</u></p> <p>14.1.) UN- number</p> <p>14.2.) UN proper shipping name</p> <p>14.3.) Transport hazard class(es)</p> <p>Class:</p> <p>14.4.) Packing group</p> <p>14.5.) Environmental hazards</p> <p>14.6.) Special precautions for user</p> <p>14.7.) Transport in bulk according to Annex II of MARPOL- and the IBC-Code</p>	<p>Not subject to transport regulations.</p> <p>-</p> <p>-</p> <p>-</p> <p>-</p> <p>There is no additional information.</p> <p>The cargo is not intended to be carried in bulk.</p>				
<p>15.) <u>Regulatory information</u></p> <p>15.1.) Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>Relevant provisions of the European Union (EU)</p> <p>Restrictions according to REACH, Annex XVII:</p> <p>List of substances subject to authorisation (REACH, Annex XIV):</p> <p>VOC-Deco-Paint Directive 2004/42/EC</p> <table border="1" data-bbox="315 1612 1409 1682"> <tr> <td>VOC content</td> <td>0 %</td> </tr> </table> <p>Directive on industrial emissions (VOCs, 2010/75/EU)</p> <table border="1" data-bbox="315 1787 1409 1856"> <tr> <td>VOC content</td> <td>0 %</td> </tr> </table>	VOC content	0 %	VOC content	0 %	<p>none of the ingredients are listed.</p> <p>none of the ingredients are listed.</p>
VOC content	0 %				
VOC content	0 %				



18. August 2017

<p>Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) – Annex II:</p> <p>Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR):</p> <table border="1" data-bbox="316 604 1409 785"> <thead> <tr> <th colspan="4">Pollutant release and transfer registers (PRTR)</th> </tr> <tr> <th>Name of substance</th> <th>CAS No</th> <th>Remarks</th> <th>Threshold for releases to air (kg/year)</th> </tr> </thead> <tbody> <tr> <td>Copper</td> <td>7440-50-8</td> <td>(8)</td> <td>100</td> </tr> </tbody> </table> <p>Legend</p> <p>(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release.</p> <p>Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD):</p> <p>Explosives precursors which are subject to restrictions:</p>	Pollutant release and transfer registers (PRTR)				Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)	Copper	7440-50-8	(8)	100	<p>none of the ingredients are listed.</p> <p>none of the ingredients are listed.</p> <p>none of the ingredients are listed.</p>		
Pollutant release and transfer registers (PRTR)															
Name of substance	CAS No	Remarks	Threshold for releases to air (kg/year)												
Copper	7440-50-8	(8)	100												
<p>16.) OTHER INFORMATION</p> <p>Indication of changes (revised safety data sheet)</p> <p>Indication of changes:</p> <p>Abbreviations and acronyms</p> <table border="1" data-bbox="316 1402 1409 1892"> <thead> <tr> <th colspan="2">Abbreviations and acronyms</th> </tr> <tr> <th>Abbr.</th> <th>Descriptions of used abbreviations</th> </tr> </thead> <tbody> <tr> <td>2000/39/EC</td> <td>Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC</td> </tr> <tr> <td>91/322/EEC</td> <td>Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/EEC</td> </tr> <tr> <td>ADN</td> <td>Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)</td> </tr> <tr> <td>ADR</td> <td>Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)</td> </tr> <tr> <td>CAS</td> <td>Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)</td> </tr> </tbody> </table>	Abbreviations and acronyms		Abbr.	Descriptions of used abbreviations	2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC	91/322/EEC	Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/EEC	ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)	ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)	CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	<p>Section 8</p>
Abbreviations and acronyms															
Abbr.	Descriptions of used abbreviations														
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC														
91/322/EEC	Commission Directive on establishing indicative limit values by implementing Council Directive 80/1107/EEC														
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)														
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)														
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)														



Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	danger
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
GHS	„Globally Harmonized System of Classification and Labelling of Chemicals“ developed by the United Nations
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
Index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of “Marine Pollutant”)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit



18. August 2017

Key literature references and sources for data	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No 1907/2006 (REACH), amended by 2015/830/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA)
Classification procedure	Physical and chemical properties. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).
Revisions date:	19.01.2016 / 14.12.2016 / 07.02.2017
Version number:	2.0

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.