

# SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## SUPERSOLDER RoHS

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

#### 1.1. Product identifier

Product name : SUPERSOLDER RoHS  
Registration number REACH : Not applicable (mixture)  
Product type REACH : Mixture

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

##### 1.2.1 Relevant identified uses

Solder

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@tec7.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.3. Other hazards

No other hazards known

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
tin	7440-31-5 231-141-8	80% <C<100%		(2)	Constituent
silver	7440-22-4 231-131-3	1%<C<5%		(2)	Constituent
additive		1%<C<5%			Constituent

(2) Substance with a Community workplace exposure limit

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)  
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<http://www.big.be>  
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134-16239-552-en

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

If you feel unwell, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Rinse with water. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

Slight irritation.

##### After eye contact:

Slight irritation.

##### After ingestion:

No effects known.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media

Small fire: Water (quick-acting extinguisher, reel), Quick-acting ABC powder extinguisher, Class A foam extinguisher.

Major fire: Water, Class A foam.

#### 5.1.2 Unsuitable extinguishing media

Small fire: Quick-acting CO2 extinguisher, Quick-acting BC powder extinguisher.

### 5.2. Special hazards arising from the substance or mixture

On burning: formation of metallic fumes.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

No naked flames.

#### 6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

##### Suitable protective clothing

See heading 8.2

### 6.2. Environmental precautions

Contain released product.

### 6.3. Methods and material for containment and cleaning up

Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See heading 13.

# SUPERSOLDER RoHS

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Keep container in a well-ventilated place. Protect against frost. Keep container tightly closed. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

##### EU

Silver, metallic	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	0.1 mg/m <sup>3</sup>
Tin (inorganic compounds as Sn)	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	2 mg/m <sup>3</sup>

##### Belgium

Argent (métal)	Time-weighted average exposure limit 8 h	0.1 mg/m <sup>3</sup>
Etain (métal)	Time-weighted average exposure limit 8 h	2 mg/m <sup>3</sup>

##### The Netherlands

Tin (anorganische verbindingen als Sn)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	2 ppm
Zilver, metallisch	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.1 mg/m <sup>3</sup>

##### France

Argent (métallique)	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.1 mg/m <sup>3</sup>
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##### Germany

Silber	Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m <sup>3</sup>
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##### UK

Silver, metallic	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.1 mg/m <sup>3</sup>
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##### USA (TLV-ACGIH)

Silver, metal, dust and fume	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 mg/m <sup>3</sup>
Tin Metal	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m <sup>3</sup>

##### b) National biological limit values

If limit values are applicable and available these will be listed below.

#### 8.1.2 Sampling methods

If applicable and available it will be listed below.

Silver (Ag) (Elements)	NIOSH	7300
Silver (Ag) (Elements, aqua regia ashing)	NIOSH	7301
Silver (Ag) (Elements, hot block/HCl/HNO <sub>3</sub> digestion)	NIOSH	7303
Silver (Ag)	NIOSH	8005
Silver (Ag)	NIOSH	8310
Silver (Elements on wipes)	NIOSH	9102
Silver	OSHA	ID 121
Tin (Elements)	NIOSH	7300
Tin (Elements, aqua regia ashing)	NIOSH	7301

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Tin (Elements, hot block/HCl/HNO3 digestion)	NIOSH	7303
Tin (Sn)	NIOSH	8310
Tin	OSHA	ID 121
Tin	OSHA	ID 206

## 8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

## 8.1.4 DNEL/PNEC values

### DNEL/DMEL - Workers

tin

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	11.75 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	11.75 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	133.3 mg/kg bw/day	

silver

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.1 mg/m <sup>3</sup>	

### DNEL/DMEL - General population

tin

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	3.476 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	3.476 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	80 mg/kg bw/day	
	Acute systemic effects dermal	80 mg/kg bw/day	
	Long-term systemic effects oral	80 mg/kg bw/day	
	Acute systemic effects oral	80 mg/kg bw/day	

silver

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	0.04 mg/m <sup>3</sup>	
	Long-term systemic effects oral	1.2 mg/kg bw/day	

### PNEC

silver

Compartments	Value	Remark
Fresh water	0.04 µg/l	
Marine water	0.86 µg/l	
STP	0.025 mg/l	
Fresh water sediment	438.13 mg/kg sediment dw	
Marine water sediment	438.13 mg/kg sediment dw	
Soil	1.41 mg/kg soil dw	

## 8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

#### a) Respiratory protection:

Dust production: dust mask with filter type P1.

#### b) Hand protection:

Gloves.

#### c) Eye protection:

Safety glasses. In case of dust production: protective goggles.

#### d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical form	Solid
Odour	No data available on odour
Odour threshold	No data available
Colour	Grey
Particle size	No data available
Explosion limits	No data available

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Flammability	Non combustible
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	Water ; insoluble
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Keep away from naked flames/heat.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

On burning: formation of metallic fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

##### SUPERSOLDER RoHS

No (test)data on the mixture available

tin

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	
Inhalation (dust)	LC50	OECD 403	> 4.75 mg/l air	4 h	Rat (male/female)	Experimental value	

silver

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5110 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg	24 h	Rat (male/female)	Experimental value	
Inhalation (dust)	LC50	OECD 436	> 5.16 mg/l air	4 h	Rat (male/female)	Experimental value	

Judgement is based on the relevant ingredients

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

##### SUPERSOLDER RoHS

No (test)data on the mixture available

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tin

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 72 hours	Rabbit	Experimental value	

silver

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit		

Judgement is based on the relevant ingredients

## Conclusion

Not classified as irritating to the skin  
Not classified as irritating to the eyes

## Respiratory or skin sensitisation

### SUPERSOLDER RoHS

No (test)data on the mixture available

tin

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Human observation			Human	Experimental value	

silver

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (male/female)	Experimental value	

Judgement is based on the relevant ingredients

## Conclusion

Not classified as sensitizing for skin  
Not classified as sensitizing for inhalation

## Specific target organ toxicity

### SUPERSOLDER RoHS

No (test)data on the mixture available

tin

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOEL	OECD 407	> 1000 mg/kg bw/day		No effect	28 day(s)	Rat (male/female)	Experimental value

silver

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	OECD 408	30 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male/female)	Experimental value
Inhalation (aerosol)	NOAEC	OECD 413	133 µg/m <sup>3</sup>		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Judgement is based on the relevant ingredients

## Conclusion

Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### SUPERSOLDER RoHS

No (test)data on the mixture available

tin

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

silver

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 487	Human lymphocytes	No effect	Experimental value
Positive without metabolic activation, negative with metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value

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## Mutagenicity (in vivo)

### SUPERSOLDER RoHS

No (test)data on the mixture available

silver

Result	Method	Exposure time	Test substrate	Organ	Value determination
Positive	OECD 475		Mouse (male)	Bone marrow	Experimental value
Negative	OECD 474	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Bone marrow	Experimental value

Judgement is based on the relevant ingredients

### Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### SUPERSOLDER RoHS

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

### SUPERSOLDER RoHS

No (test)data on the mixture available

tin

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOEL	OECD 421	> 1000 mg/kg bw/day	56 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOEL	OECD 421	> 1000 mg/kg bw/day	56 day(s)	Rat	No effect		Experimental value
Effects on fertility	NOEL	OECD 421	> 1000 mg/kg bw/day	56 day(s)	Rat (male/female)	No effect		Experimental value

silver

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 100 mg/kg bw/day	14 days (gestation, daily)	Rat (female)	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	10 mg/kg bw/day	14 days (gestation, daily)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	OECD 422	≥ 250 mg/kg bw/day		Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

### Conclusion

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

### SUPERSOLDER RoHS

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### SUPERSOLDER RoHS

No effects known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### SUPERSOLDER RoHS

No (test)data on the mixture available

# SUPERSOLDER RoHS

tin

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 12.4 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	> 19.2 mg/l	72 h	Pseudokirchneriella subcapitata	Static system	Salt water	Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEC	US EPA	107.3 mg/l	7 day(s)	Ceriodaphnia dubia	Semi-static system	Fresh water	Experimental value; GLP

Judgement of the mixture is based on the relevant ingredients

## Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

Biodegradability: not applicable

## 12.3. Bioaccumulative potential

### SUPERSOLDER RoHS

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

tin

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

silver

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable			

## Conclusion

No test data of component(s) available

## 12.4. Mobility in soil

Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

The criteria of PBT and vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006 do not apply to inorganic substances.

## 12.6. Other adverse effects

### SUPERSOLDER RoHS

#### Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

17 04 07 (metals (including their alloys): mixed metals). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment.

#### 13.1.3 Packaging/Container

No data available



# SUPERSOLDER RoHS

## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

14.1. UN number	Transport	Not subject
14.2. UN proper shipping name		
14.3. Transport hazard class(es)		
	Hazard identification number	
	Class	
	Classification code	
14.4. Packing group		
	Packing group	
	Labels	
14.5. Environmental hazards		
	Environmentally hazardous substance mark	no
14.6. Special precautions for user		
	Special provisions	
	Limited quantities	
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code		
	Annex II of MARPOL 73/78	

## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
	Not applicable (inorganic)

#### National legislation Belgium

SUPERSOLDER RoHS

No data available

tin

Résorption peau	Etain (métal); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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#### National legislation The Netherlands

SUPERSOLDER RoHS

Waterbezwaarlijkheid Z (2)

#### National legislation France

SUPERSOLDER RoHS

No data available

#### National legislation Germany

SUPERSOLDER RoHS

WGK nwg; Classification non-water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

tin

TA-Luft 5.2.2; III

#### National legislation United Kingdom

SUPERSOLDER RoHS

No data available

#### Other relevant data

SUPERSOLDER RoHS

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

# SUPERSOLDER RoHS

## SECTION 16: Other information

(*)	INTERNAL CLASSIFICATION BY BIG
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
Erc50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.