Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

1.1. Product identifier

Lead contained Solder Wire Tin-Lead or Lead-Tin Alloy with resin based flux

Further trade names

possible alloys: Sn60Pb40; Sn63Pb37; Sn64Pb36; Sn60Pb38Cu2; Sn60Pb38Ag2; Sn60Pb36Ag4; Sn62Pb36Ag2; Pb60Sn40; Pb90Sn10; Pb62Sn27Ag3; Pb93Sn5Ag2; Pb95,5Sn3Ag1,5; Pb70Sn20Ag3; Pb93Sn5Ag2; Pb88Sn10Ag2; Pb62Sn25Bi10Ag3

LF 2220 NC; LF 3135 NC; Brilliant B2012; Brilliant B211; F-SW 26Q; F-SW 32Q; Cobar 393

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

Use of the substance/mixture

Solder wire for soft soldering (contains lead)

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	Balver Zinn Josef Jost GmbH & Co. KG	
Street:	Blintroper Weg 11	
Place:	D-58802 Balve	
Telephone:	+49 2375 915-0	Telefax: +49 2375 915-114
Responsible Department:	cia@balverzinn.com	

1.4. Emergency telephone number:

+49 (0) 700 24 112 112 (Contract-ID:BZW)
from USA/Canada pls call 011 49 700 24 112 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Reproductive toxicity: Repr. 1A
Reproductive toxicity: Lact.
Specific target organ toxicity - repeated exposure: STOT RE 1
Hazard Statements:
May damage fertility. May damage the unborn child.
May cause harm to breast-fed children.
Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

lead massive [particle diameter >= 1 mm]

Signal word: Danger

Pictograms:

Hazard statements

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.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy and while nursing.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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 advice on labelling

For this product, a hazard label is not required according to section 1.3.4 of the CLP regulation.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Solder wire

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7440-31-5	tin			2-70 %
	231-141-8		01-2119486474-28	
7439-92-1	lead massive [particle diameter >= 1 mm]			30-98 %
	231-100-4	082-014-00-7	01-2119513221-59	
	Repr. 1A, Lact., STOT RE 1; H360FD H362 H372			
7440-69-9	bismuth			0-10 %
	231-177-4		01-2119560575-33	
65997-06-0	hydrogenated rosin			1-5 %
	266-041-3			
7440-50-8	copper			0-5 %
	231-159-6		01-2119480154-42	
7440-22-4	silver			0-5 %
	231-131-3		01-2119555669-21	

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
7440-31-5	231-141-8	tin	2-70 %

	inhalation: LC50 = (>4,75) mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
7439-92-1	231-100-4	lead massive [particle diameter >= 1 mm]	30-98 %
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
7440-69-9	231-177-4	bismuth	0-10 %
	oral: LD50 = 2000 mg/kg		
65997-06-0	266-041-3	hydrogenated rosin	1-5 %
	oral: LD50 = >5000 mg/kg		
7440-50-8	231-159-6	copper	0-5 %
	inhalation: LC50 = >5,11 mg/l (dusts or mists)		
7440-22-4	231-131-3	silver	0-5 %
	inhalation: LC50 = >5,16 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: lead massive [particle diameter >= 1 mm] CAS n°: 7439-92-1

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

No special measures are necessary.
The melted product can cause severe burns. After contact with molten product, cool skin area rapidly with cold water. Burns caused by molten material must be treated clinically.

After contact with eyes

No special measures are necessary.

After ingestion

No special measures are necessary.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Sand
Extinguishing powder
D -powder

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons:
Water
High power water jet
Water spray jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Metal oxide smoke, toxic

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

See protective measures under point 7 and 8.

For non-emergency personnel

Personal protection equipment: see section 8

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

No special measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal .

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Take up mechanically, placing in appropriate containers for disposal.
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If local exhaust ventilation is not possible or not sufficient , the entire working area must be ventilated by technical means. Process within closed systems.
Do not breathe smoke. Do not breathe dust.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special measures are necessary.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Recommended storage temperature: 20°C
Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7440-50-8	Copper, dusts and mists (as Cu)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	WEL
-	Lead other than lead alkyls	-	0.15		TWA (8 h)	CLAW
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL
-	Tin compounds, inorganic, except SnH4, (as Sn)	-	2		TWA (8 h)	WEL
		-	4		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
7439-92-1	Lead (woman of reproductive capacity)	lead	20 µg/dl	blood	Random

DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
7440-31-5	tin		
Consumer DNEL, long-term	inhalation	systemic	3,476 mg/m³
Consumer DNEL, acute	inhalation	systemic	3,476 mg/m³
Worker DNEL, long-term	inhalation	systemic	11,75 mg/m³
Worker DNEL, acute	inhalation	systemic	11,75 mg/m³
Consumer DNEL, long-term	dermal	systemic	80 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	80 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	80 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	80 mg/kg bw/day
7440-69-9	bismuth		
Worker DNEL, long-term	inhalation	systemic	13,1 mg/m³

Consumer DNEL, long-term	oral	systemic	13,3 mg/kg bw/day
65997-06-0 hydrogenated rosin			
Worker DNEL, long-term	dermal	systemic	17 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	117 mg/m³
Consumer DNEL, long-term	dermal	systemic	10 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	35 mg/m³
Consumer DNEL, long-term	oral	systemic	10 mg/kg bw/day
7440-50-8 copper			
Worker DNEL, acute	dermal	systemic	273 mg/kg bw/day
Consumer DNEL, acute	dermal	systemic	273 mg/kg bw/day
Consumer DNEL, acute	inhalation	systemic	20 mg/m³
Worker DNEL, long-term	inhalation	local	1 mg/m³
Consumer DNEL, long-term	dermal	systemic	137 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	137 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	20 mg/m³
Consumer DNEL, long-term	inhalation	local	1 mg/m³
7440-22-4 silver			
Worker DNEL, long-term	inhalation	systemic	0,1 mg/m³
Consumer DNEL, long-term	inhalation	systemic	0,04 mg/m³
Consumer DNEL, long-term	oral	systemic	1,2 mg/kg bw/day

PNEC values

CAS No	Substance
Environmental compartment	Value
7440-69-9	bismuth
Micro-organisms in sewage treatment plants (STP)	17,5 mg/l
65997-06-0	hydrogenated rosin
Freshwater	0,0016 mg/l
Marine water	0,00016 mg/l
Freshwater sediment	0,007 mg/kg
Marine sediment	0,0007 mg/kg
Micro-organisms in sewage treatment plants (STP)	1000 mg/l
Soil	0,00045 mg/kg
7440-50-8	copper
Freshwater	0,0078 mg/l
Marine water	0,0052 mg/l
Freshwater sediment	87 mg/kg
Marine sediment	678 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
Soil	65 mg/kg
7440-22-4	silver
Freshwater	0,00004 mg/l
Marine sediment	438,13 mg/kg
Freshwater sediment	438,13 mg/kg

Marine water	0,00086 mg/l
Micro-organisms in sewage treatment plants (STP)	0,025 mg/l
Soil	1,41 mg/kg

8.2. Exposure controls




Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.
Process within closed systems.

Protective and hygiene measures

Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Use protective skin cream before handling the product.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves.
for coarse soldering works: heat insulating.

Skin protection

Protective clothing (heat-resistant)

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
Insufficient ventilation
Exceeding exposure limit values
Suitable respiratory protective equipment: Particle filter device (DIN EN 143) Type: P3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

No special environmental measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	metallic, silver
Odour:	odourless

pH-Value:	not applicable

Changes in the physical state

Melting point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Flash point:	not determined

Flammability

Solid/liquid:	not determined

Explosive properties
none

Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined

Self-ignition temperature

Solid:	not determined
Decomposition temperature:	not determined

Oxidizing properties
none

Vapour pressure:	not determined
Density:	not determined
Bulk density:	not determined
Water solubility:	insoluble

Solubility in other solvents
insoluble

Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined

9.2. Other information

Solid content:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity
No information available.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
No information available.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
Can be released in case of fire: Metal oxide smoke, toxic

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution
No information available.

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7440-31-5	tin				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 (>4,75) mg/l	Rat	ECHA Dossier	
7439-92-1	lead massive [particle diameter >= 1 mm]				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2003)	OECD Guideline 402
7440-69-9	bismuth				
	oral	LD50 2000 mg/kg	Rat	ECHA Dossier	
65997-06-0	hydrogenated rosin				
	oral	LD50 >5000 mg/kg	Rat.	RTECS	
7440-50-8	copper				
	inhalation (4 h) aerosol	LC50 >5,11 mg/l	Rat	ECHA Dossier	
7440-22-4	silver				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	inhalation (4 h) aerosol	LC50 >5,16 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Not an irritant.
Serious eye damage/eye irritation: Not an irritant.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

May damage fertility. May damage the unborn child. (lead massive [particle diameter >= 1 mm])
May cause harm to breast-fed children. (lead massive [particle diameter >= 1 mm])
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.

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. (lead massive [particle diameter >= 1 mm])

Aspiration hazard

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

Specific effects in experiment on an animal

No data available

SECTION 12: Ecological information

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
65997-06-0	hydrogenated rosin			
	OECD Guideline 301 B	0,95%	28	ECHA Dossier
	Product is not easily biodegradable.			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

BCF

CAS No	Chemical name	BCF	Species	Source
7439-92-1	lead massive [particle diameter >= 1 mm]	40000	Asellus meridianus	Freshwater Biology 7

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Not restricted

14.7. Maritime transport in bulk according to IMO instruments

Not restricted

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
lead massive [particle diameter >= 1 mm]

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 63

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No: 63

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.
Water hazard class (D):	3 - highly hazardous to water

Additional information

Observe technical data sheet.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Rev. 1.00; 22.05.2015, Initial release
Rev.1.1; 16.11.2016, Indication of changes - chapter: 1, 2, 3, 16.
Rev. 2,0 ; 13.04.2018, Changes in chapter: 2, 3, 15.
Rev. 2,1 ; 03.07.2018, Changes in chapter: 3.
Rev. 2.2; 19.02.2019, Indication of changes - chapter: 14, 15, 16.
Rev. 2.3; 21.03.2019, Indication of changes - chapter: 8
Rev. 2.4; 27.04.2021, Indication of changes - chapter: 1-16

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect concentration
NTP: National Toxicology Program
N/A: not applicable
OSHA: Occupational Safety and Health Administration
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln fuerGefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Repr. 1A; H360FD	Calculation method
Lact.; H362	Calculation method
STOT RE 1; H372	Calculation method

Relevant H and EUH statements (number and full text)

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.

Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:
Health hazards: Calculation method.
Environmental hazards: Calculation method.
Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)