

	SAFETY DATA SHEET According to Annex II of the REACH Regulation Regulation (EU) 2020/878	Doc. No.: A-03-002 (EN)
		Rev. No.: 06 dated: 01/02/2023
	Ag-Cu-Zn-Sn Ecoflux flux-coated rods	Replaced rev.: 05 dated: 12/04/2019
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Section 1.

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Brazing Alloys, supplied as flux-coated rods (ecoflux), with following codes: Ag17Sn; Ag25Sn; Ag30Sn; Ag34Sn; Ag38Sn; Ag38Sn/1; Ag40Sn; Ag45Sn; Ag55Sn; Ag56Sn; Ag60Sn.

UFI:

7300-F084-M00S-AY73

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

Brazing alloys.

1.3 Details of the supplier of the safety data sheet

Company Name:	R!MAC
Address:	Rattvägen 2
City and Country:	54134 Skövde - SWEDEN
Telephone no.:	+46500415100
Fax no.:	---
Web:	www.rimac.se
E-mail of person responsible of Safety Data Sheet:	info@sisab.info

1.4 Emergency telephone number

For urgent inquiries refer to:

SOS Alarm Sverige

112

R!MAC

Tel.: +46 (0) 500415100 (Monday - Friday -- 07:30-12:00 / 13:00-16:30)

Section 2.

Hazards identification

According to regulation 1272/2008/EC these products are articles.

These products do not represent 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.

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provision set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety data sheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in Sections 11 and 12 of this sheet.

HAZARD CLASS AND CATEGORY CODES:	HAZARD STATEMENT CODES:
Reproductive toxicity, category 2	H361d

2.2 Label elements

Exempt from labelling, in accordance with Regulation (EC) 1272/2008 - Annex I - 1.3.4.

HAZARD STATEMENTS:

EUH210: Safety data sheet available on request.

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2.3 Other hazards

Prevent exposure to and inhalation of fumes that are generated during brazing and soldering operations, by means of mechanical ventilation and/or protective masks. Workers must wear and properly maintain all personal protective equipment supplied, and comply with safety procedures and information.

Workers, prior of starting brazing and soldering operations, must be aware of safety procedures to be followed, and must strictly observe those procedures.

Body of worker should be protected by appropriate clothes.

Brazing and soldering operations may present the risk of generation of dangerous metal oxides and metal vapours and fumes (small particles with approx. dimensions of millimetres).

Avoid over-heating of product and/or of pieces to be brazed.

Do not eat and/or drink on work-place.

Based on the available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1%.

The product does not contain any SVHC substance.

The product does not contain substances having endocrine disrupting properties in concentration $\geq 0.1\%$.

Section 3.

Composition / Information on ingredients

3.1 Substances

Information not relevant.

3.2 Mixtures

The product consists of a silver alloy rod (not classified as dangerous according to regulation (EC) 1272/2008 (CLP), and exempt from labeling as per article 1.3.4, Annex I, of Regulation (EC) 1272 / 2008), externally coated with a layer of deoxidising paste.

Substance	CAS CE Index REACH Reg. no.	Conc. %	Classification 1272/2008/EC (CLP)	
Silver	7440-22-4 231-131-3 --- 01-2119555669-21-XXXX	10-55	---	---
Copper	7440-50-8 231-159-6 --- 01-2119480154-42-XXXX	12-45	---	---
Zinc	7440-66-6 231-175-3 --- 01-2119467174-XXXX	8-32	---	---
Tin	7440-31-5 231-141-8 --- 01-2119486474-28-XXXX	1-3	---	---
Potassium Tetrafluoroborate	14075-53-7 237-928-2 --- 01-2119968922-24-XXX	5,5-22	---	---

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Potassium Tetraborate Tetrahydrate	12045-78-2 215-575-5 ---	4,5-20	Repr. 2	H361d
	01-2119970730-37-0006			

See section 16. of this data sheet for complete description of H Hazard Statements.

Section 4. First aid measures

4.1 Description of first aid measures

Inhalation:

Welding fumes:

Remove person from danger area and supply fresh air.

If symptoms persist, consult a doctor.

If the subject stops breathing, give artificial respiration.

Ingestion:

Not likely, given the solid form of the product.

Consult a doctor.

Induce vomiting only upon medical advice.

Skin contact:

In case of contact with hot product: use appropriate first aid methods.

Consult a doctor in case of symptoms.

Eye contact:

Not likely, given the solid form of the product.

Welding fumes:

Remove contact lenses.

Wash eyes thoroughly with lots of water for some minutes, keeping eyes wide open.

Consult a doctor in case of symptoms.

4.2 Most important symptoms and effects, both acute and delayed

Potassium Tetrafluoroborate:

In case of inhalation it may cause irritation of the nose, throat and lungs. Prolonged contact with the skin may cause irritation. May cause eye irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potassium Tetraborate Tetrahydrate:

Symptoms caused by accidental overexposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. Among these it is possible to mention nausea, vomiting and diarrhea, with delayed effects of redness and skin exfoliation.

Inhalation of excessive amounts of zinc oxide fumes and/or copper and/or zinc fumes may cause metal fume fever. The symptoms are similar to those of the flu and appear after a latency period of up to 10 hours. Symptoms usually disappear within the next 24 hours.

4.3 Indication of any immediate medical attention and special treatment needed

Potassium Tetrafluoroborate:

If swallowed, seek medical advice immediately. If symptoms persist or if there is any doubt, consult a doctor.

Potassium Tetraborate Tetrahydrate:

Note to doctors: support treatment is required exclusively for ingestion of quantities less than a few grams of product by adults. For ingestion of larger quantities, maintain

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electrolyte and fluid compensation and adequate renal function. It is recommended to perform gastric lavage only in case of highly exposed symptomatic patients in whom the emesis has not emptied the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially those with impaired renal function. Blood boron and urine analyzes are useful only for the purpose of verifying exposure and not for assessing the severity of poisoning or as a guide during treatment.

Section 5. Firefighting measures

The product is not flammable.

5.1 Extinguishing media

Recommended fire-extinguishing means:

General means: water, chemical powder, CO₂, etc.

Un-recommended fire-extinguishing means:

None in particular.

5.2 Special hazards arising from the substance or mixture

Avoid breathing combustion products.

5.3 Advice for firefighters

General information:

Keep product cool with water to avoid decomposition and generation of substances dangerous for health.

Collect water used for fire extinction and do not release it in drainage systems.

Dispose of contaminated water used for extinguishing and fire residues according to local regulations.

Equipment:

Wear complete fire-fighting equipment.

Section 6. Accidental release measures

The product in the solid state does not present particular dangers of accidental spillage.

6.1 Personal precautions, protective equipment and emergency procedures

Generally not necessary.

6.2 Environmental precautions

Avoid the product from being released in drainage systems, in superficial waters, in ground waters, in confined areas.

6.3 Methods and materials for containment and cleaning up

Collect material manually.

Disposal of the material must be carried out in accordance with the provisions of point 13.

6.4 Reference to other sections

For information about safe handling refer to Section 7.

For information about personal protective equipment refer to Section 8.

For information about disposal refer to Section 13.

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Section 7. Handling and storage

7.1 Precautions for safe handling

The handling of the product, as supplied, in the solid state, does not involve the adoption of particular precautions. However, it is advisable to handle the product after having consulted all the other sections of this safety data sheet.

Do not eat, drink or smoke during use.

During use (brazing) avoid breathing the fumes that develop, ensuring adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Protect from heat, sun and low temperatures.

7.3 Specific end use(s)

During brazing operations keep work-place well ventilated, or use appropriate mechanical air-extraction methods.

If necessary wear an appropriate breathing mask.

Section 8. Exposure controls / Personal protection

8.1 Control parameters

Substance	CAS	Type-Value	Note
Silver	7440-22-4	ACGIH 0,1 mg/m ³ - TWA/8h	---
Copper	7440-50-8	ACGIH 0,2 mg/m ³ - TWA/8h VME 1,0 mg/m ³ - TWA/8h	Fume, as Cu ---
Zinc	7440-66-6	MAK (DE) 0,1 mg/m ³ - TWA/8h MAK (DE) 0,4 mg/m ³ - STEL/15min	Breathable
Tin	7440-31-5	ACGIH 2 mg/m ³ - TWA/8h ACGIH 2,5 mg/m ³ - STEL/15min VLEP (FR) 10 mg/m ³ - TWA/8h	--- ---
Potassium Tetrafluoroborate	14075-53-7	VLEP (ITA) 2,5 mg/m ³ - STEL/15min ACGIH 10 mg/m ³ - TWA/8h	--- ---
Potassium Tetraborate Tetrahydrate	12045-78-2	ACGIH 10 mg/m ³ - TWA/8h	---

DNEL			
Substance	CAS	Type	Value
Silver	7440-22-4	---	---
Copper	7440-50-8	Workers-Cutaneous-Systemic-Long Term Consumers-Oral-Systemic-Long Term Consumers-Cutaneous-Systemic-Long Term Workers-Cutaneous-Systemic-Short Term Consumers-Cutaneous-Systemic-Short Term	137 mg/kg bw/d 41 µg/kg bw/d 137 mg/kg bw/d 273 mg/kg bw/d 273 mg/kg bw/d

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Zinc	7440-66-6	---	---
Tin	7440-31-5	Workers-Cutaneous-Systemic-Long Term Workers-Inhalation-Systemic-Long Term Consumers-Oral-Systemic-Long Term Consumers-Cutaneous-Systemic-Long Term Consumers-Inhalation-Systemic-Long Term	10 mg/kg bw/d 71 mg/m ³ 5 mg/kg bw/d 80 mg/kg bw/d 17 mg/m ³
Potassium Tetrafluoroborate	14075-53-7	Workers-Cutaneous-Systemic-Long Term Workers-Inhalation-Systemic-Long Term Consumers-Oral-Systemic-Long Term Consumers-Cutaneous-Systemic-Long Term Consumers-Inhalation-Systemic-Long Term	20,5 mg/kg bw/day 4,54 mg/mc 67 µg/kg bw/d 3,7 mg/kg bw/day 1,13 mg/mc
Potassium Tetraborate Tetrahydrate	12045-78-2	Workers-Cutaneous-Systemic-Long Term Workers-Inhalation-Systemic-Long Term Consumers-Oral-Systemic-Long Term Consumers-Oral-Local-Long Term Consumers-Cutaneous-Systemic-Long Term Consumers-Inhalation-Systemic-Long Term	480,6 mg/kg bw/d 10,25 mg/m ³ 1,2 mg/kg bw/d 1,2 mg/kg bw/d 242,4 mg/kg bw/d 5,16 mg/m ³

PNEC			
Substance	CAS	Type	Value
Silver	7440-22-4	---	---
Copper	7440-50-8	Fresh water Marine water Sediments in fresh water Sediments in marine water STP microorganisms Terrestrial Section	7,8 µg/l 5,2 µg/l 87 mg/kg 676 mg/kg 230 µg/l 65 mg/kg
Zinc	7440-66-6	---	---
Tin	7440-31-5	Fresh water Marine water STP microorganisms	2 mg/l 0,2 mg/l 55 mg/l
Potassium Tetrafluoroborate	14075-53-7	Fresh water Marine water STP microorganisms	2 mg/l 0,2 mg/l 55 mg/l
Potassium Tetraborate Tetrahydrate	12045-78-2	Fresh water Marine water Sediments in marine water Water, intermittent release STP microorganisms Terrestrial Section	2,02 mg/lg 2,02 mg/lg 10 mg/l 13,7 mg/l 2,02 mg/l 5,4 mg/kg e/d

8.2 Exposure controls

Breathing protection:

Keep workplace well ventilated, by means of mechanical air extraction and/or systems for release of exhaust air. If these means are not sufficient to keep the concentration of product below the exposure limit values, wear an appropriate breathing mask.

Hand protection:

It is advisable to protect your hands with work gloves.

Eye protection:

It is recommended to wear sealed safety glasses with side shields (ref. EN 166).

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Skin protection:

It is recommended to wear waterproof safety footwear and professional, long-sleeved, waterproof work clothes (ref. EN 344).

General hygiene measures:

No information available.

Environmental exposure controls:

No information available.

**Section 9.
Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Physical state:	Solid
Color:	---
Odor:	Odorless
Odor threshold:	---
pH:	---
Melting / freezing point:	> 530°C
Initial boiling point:	---
Boiling range:	---
Flash point:	---
Evaporation rate:	---
Flammability (solid / gas):	---
Upper flammability limit:	---
Lower flammability limit:	---
Upper explosion limit:	---
Lower explosion limit:	---
Vapor pressure:	---
Relative density:	---
Solubility in water:	---
Partition coefficient: n-octanol / water:	---
Self-ignition temperature:	---
Decomposition temperature:	---
Viscosity:	---
Explosive properties:	---
Oxidizing properties:	---

9.2 Other information

No information available.

**Section 10.
Stability and reactivity**

10.1 Reactivity

Under normal conditions of use, there is no particular risk of reaction with other substances.

10.2 Chemical stability

Stable under normal use conditions and storage.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

None in particular. However, the usual precautions for chemical products should be followed.

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10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

At high temperatures dangerous fumes may develop.

Section 11.

Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Acute effects: exposition to fumes is dangerous for worker's health, causing fast poisoning by exposition to metal oxides; may be harmful for skin absorption and for ingestion.

For product inhalation, poisoning can be displayed by various symptoms, such as: eyes, mouth, nose, and throat ache and irritation, cough, difficulty in breathing, dizziness, vertigo, nausea and vomiting.

In worst cases, inhalation may cause: inflammation and oedema of larynx and of bronchi, chemical pneumonia and pulmonary oedema, increase or decrease of heartbeat, excessive salivation or blood sputum, loss of consciousness, behaviour disorders (depression or euphoria).

Brazing fumes may cause irritation of eyes and skin.

11.1 Information on the hazard classes defined in Regulation (EC) 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

No information available.

Information on likely route of exposure

The product is supplied in a solid state and is intended for use as a brazing filler material: the most probable route of exposure is inhalation during the use of the product (brazing alloy fusion).

Delayed and immediate effects as well as chronic effects from short and long-term exposure

See section 4.2.

Interactive effects

No information available.

Acute toxicity

Substance	CAS	Measure	Value	Unit of measure / Note
Ag-Cu-Zn-Sn Ecoflux	---	LD50-oral	Not classified (no significant component)	
		LC50-inhalation	Not classified (no significant component)	
		LD50-dermal	Not classified (no significant component)	
Silver	7440-22-4	LD50-oral	>2000	mg/kg - Rat
		LC50-inhalation	---	---
		LD50-dermal	---	---
Copper	7440-50-8	LD50-oral	>2000	mg/kg - Rat

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		LC50-inhalation	---	---
		LD50-dermal	---	---
Zinc	7440-66-6	LD50-oral	---	---
		LC50-inhalation	---	---
		LD50-dermal	---	---
Tin	7440-31-5	LD50-oral	>2000	mg/kg - Rat
		LC50-inhalation	>5	mg/l/4h - Rat
		LD50-dermal	>2000	mg/kg - Rat
Potassium Tetrafluoroborate	14075-53-7	LD50-oral	>2000	mg/kg - Rat
		LC50-inhalation	5,3	mg/l/4h - Rat
		LD50-dermal	---	---
Potassium Tetraborate Tetrahydrate	12045-78-2	LD50-oral	3690	mg/kg bw - Rat
		LC50-inhalation	2,12	mg/l - Rat
		LD50-dermal	>2000	mg/kg bw - Rabbit

Skin corrosion / irritation

Does not meet the classification criteria for this hazard class.

Serious eye damage / irritation

Does not meet the classification criteria for this hazard class.

Respiratory or skin sensitisation

Does not meet the classification criteria for this hazard class.

Germ cell mutagenicity

Does not meet the classification criteria for this hazard class.

Carcinogenicity

Does not meet the classification criteria for this hazard class.

Reproductive toxicity

Suspected of damaging the unborn child.

STOT-single exposure

Does not meet the classification criteria for this hazard class.

STOT-repeated exposure

Does not meet the classification criteria for this hazard class.

Aspiration hazard

Does not meet the classification criteria for this hazard class.

11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health being evaluated.

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Section 12. Ecological information

12.1 Toxicity

Substance	CAS	Measure	Value	Unit of measure	Note
Silver	7440-22-4	LC10-Fish	---	---	---
		LC50-Fish	---	---	---
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	---	---	---
		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	---	---	---
		NOEC-Fish	---	---	---
		NOEC-Crustaceans	---	---	---
		NOEC-Algae/Aquatic Plants	---	---	---
Copper	7440-50-8	LC10-Fish	---	---	---
		LC50-Fish	193	µg/l	Pimephales promelas
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	---	---	---
		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	---	---	---
		NOEC-Fish	---	---	---
		NOEC-Crustaceans	---	---	---
		NOEC-Algae/Aquatic Plants	---	---	---
Zinc	7440-66-6	LC10-Fish	---	---	---
		LC50-Fish	7,1	mg/l/96h	Nothobranchius guentheri
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	2,8	mg/l/48h	Daphnia magna
		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	0,015	mg/l/72h	Pseudokirchneriella subcapitata
		NOEC-Fish	---	---	---
		NOEC-Crustaceans	---	---	---
		NOEC-Algae/Aquatic Plants	---	---	---
Tin	7440-31-5	LC10-Fish	---	---	---
		LC50-Fish	>12,4	µg/l	Pimephales promelas
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	1303	µg/l	Daphnia magna
		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	>19,2	µg/l	Pseudokirchneriella subcapitata
		NOEC-Fish	---	---	---
		NOEC-Crustaceans	---	---	---
		NOEC-Algae/Aquatic Plants	---	---	---
Potassium Tetrafluoroborate	14075-53-7	LC10-Fish	---	---	---
		LC50-Fish	>760	mg/l/96h	Leuciscus idus
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	>100	mg/l/48h	Daphnia magna

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		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	---	---	---
		NOEC-Fish	---	---	---
		NOEC-Crustaceans	---	---	---
		NOEC-Algae/Aquatic Plants	>100	mg/l	Pseudokirchneriella subcapitata
Potassium Tetraborate Tetrahydrate	12045-78-2	LC10-Fish	---	---	---
		LC50-Fish	79,7	mg/l	Pimephales promelas
		EC10-Crustaceans	---	---	---
		EC50-Crustaceans	91,0	mg/l	Ceriodaphnia dubia
		EC10-Algae/Aquatic Plants	---	---	---
		EC50-Algae/Aquatic Plants	52,4	mg/l	Pseudokirchneriella subcapitata
		NOEC-Fish	6,4	mg/l	Brachydanio rerio
		NOEC-Crustaceans	14,2	mg/l	Daphnia magna
		NOEC-Algae/Aquatic Plants	17,5	mg/l	Pseudokirchneriella subcapitata

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on the available data, the product does not contain any PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disrupting properties

Based on the available data, the substance is not listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment under evaluation.

12.7 Other adverse effects

No information available.

Section 13. Disposal considerations

13.1 Waste treatment methods

Reuse if possible.

The dangerousness of the waste which partially contains this product must be evaluated on the basis of the legislative provisions in force.

Disposal must be entrusted to an authorized disposal company in accordance with national and local regulations.

Contaminated packaging

Not relevant information.

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Section 14. Transport information

The product is not to be considered dangerous in accordance with the provisions in force regarding the transport of dangerous goods by road (A.D.R.), by rail (ADR), by sea (IMDG Code) and by air (IATA).

14.1 UN number or ID number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Maritime transport in bulk according to IMO instruments

Section 15. Regulatory information

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

Seveso category - Directive 2012/18/EU
None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006
75

Regulation (EU) 2019/1148 on the placing on the market and use of explosives precursors
Not applicable

Substances in Candidate List (Art. 59 REACH)
On the basis of available data, the product does not contain SVHC substances in percentages higher than 0.1%.

Substances subject to authorization (Annex XIV REACH)
None

Substances subject to the export notification obligation - Regulation (EU) 649/2012
None

Substances subject to the Rotterdam Convention
None

Substances subject to the Stockholm Convention
None

	SAFETY DATA SHEET According to Annex II of the REACH Regulation Regulation (EU) 2020/878	Doc. No.: A-03-002 (EN)
		Rev. No.: 06 dated: 01/02/2023
	Ag-Cu-Zn-Sn Ecoflux flux-coated rods	Replaced rev.: 05 dated: 12/04/2019
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Sanitary checks

No information available.

15.2 Chemical safety assessment

A chemical safety assessment has not been prepared for the mixture and the substances it contains.

Section 16.
Other information

Text of the danger indications (H) mentioned in sections 2 and 3 of the sheet:
H361d: Suspected of damaging the unborn child.

Note to the user:

The information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document should not be interpreted as a guarantee of any specific property of the product. Since the use of the product does not take place under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use. The information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document should not be interpreted as a guarantee of any specific property of the product. Since the use of the product does not take place under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.

Changes from the previous revision

Changes have been made to the following sections:
Complete revision.