

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

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SDS No.: 175666

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LOCTITE 362 60EN 5C 0.7MM S known as 60EN 362 5C

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

#### 1.1. Product identifier

LOCTITE 362 60EN 5C 0.7MM S known as 60EN 362 5C

#### **Contains:**

Lead

Rosin

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

Intended use:

Solder Wire

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

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-productsafety.uk@henkel.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### Classification (CLP):

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Toxic to reproduction Category 1A

H360FD May damage fertility. May damage the unborn child.

Effects on or via lactation

H362 May cause harm to breast-fed children.

Specific target organ toxicity - repeated exposure Category

H372 Causes damage to organs (Blood, Kidney, Central Nervous system) through prolonged or repeated exposure (inhalation-dust, oral)

### 2.2. Label elements

### Label elements (CLP):

Hazard pictogram:

Signal word: Danger

Hazard statement: H360FD May damage fertility. May damage the unborn child.

H317 May cause an allergic skin reaction. H362 May cause harm to breast-fed children.

H372 Causes damage to organs (Blood, Kidney, Central Nervous system) through

prolonged or repeated exposure (inhalation-dust, oral)

**Supplemental information** Restricted to professional users.

**Precautionary statement:** P201 Obtain special instructions before use.

**Prevention** P261 Avoid breathing fume.

P263 Avoid contact during pregnancy and while nursing.

P280 Wear protective gloves/protective clothing.

**Precautionary statement:** P308+P313 IF exposed or concerned: Get medical advice/attention.

**Response** P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

#### 2.3. Other hazards

Avoid breathing fumes given out during soldering.

After handling solder wash hands with soap and water before eating, drinking or smoking.

Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure give an allergic reaction (asthma).

Regulations forbid the use of lead solder in any private or public drinking water supply system.

This product contains modified rosin.

Keep out of reach of children.

Do not heat above 500 °C

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Tin 7440-31-5	231-141-8 01-2119486474-28	50- 100 %	
Lead 7439-92-1	231-100-4 01-2119513221-59	20- 40 %	Lact. H362 STOT RE 1; Inhalation - dust H372 STOT RE 1; Oral H372 Repr. 1A H360FD
Rosin 8050-09-7	232-475-7 01-2119480418-32	1-< 5 %	Skin Sens. 1 H317

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

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Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

Ingestion:

Do not induce vomiting.

Seek medical advice.

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

Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure give an allergic reaction (asthma).

SKIN: Rash, Urticaria.

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

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

See section: Description of first aid measures

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media:

Carbon dioxide, foam, powder

Fine water spray

## Extinguishing media which must not be used for safety reasons:

Do not use water on fires where molten metal is present.

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

High temperatures may produce heavy metal dust, fumes or vapours.

The flux medium will give rise to irritating fumes.

## 5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## Additional information:

The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

# **SECTION 6: Accidental release measures**

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

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

# 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

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

Scrape up spilled material and place in a closed container for disposal.

### 6.4. Reference to other sections

See advice in section 8

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# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Extraction is necessary to remove fumes evolved during reflow.

When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Avoid breathing fumes given out during soldering.

See advice in section 8

Do not heat above 500  $^{\circ}\mathrm{C}$ 

Avoid skin and eye contact.

### Hygiene measures:

Good industrial hygiene practices should be observed.

Do not eat, drink or smoke while working.

After handling solder wash hands with soap and water before eating, drinking or smoking.

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

Ensure good ventilation/extraction.

Store in a cool, dry place.

Refer to Technical Data Sheet

## 7.3. Specific end use(s)

Solder Wire

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Lead 7439-92-1 [LEAD AND LEAD COMPOUNDS, OTHER THAN LEAD ALKYLS (AS PB)]		0,15	Time Weighted Average (TWA):		EH40 WEL
Lead 7439-92-1 [INORGANIC LEAD AND ITS COMPOUNDS]		0,15	Time Weighted Average (TWA):		EU_OEL
Lead 7439-92-1 [LEAD AND ITS IONIC COMPOUNDS]			Biological Limit Value:		EU_OEL_II
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,05	Time Weighted Average (TWA):		EH40 WEL
Rosin 8050-09-7 [ROSIN-BASED SOLDER FLUX FUME]		0,15	Short Term Exposure Limit (STEL):		EH40 WEL

# **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Tin 7440-31-5 [TIN, METAL (AS SN)]		2	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Tin 7440-31-5 [TIN (INORGANIC COMPOUNDS AS SN)]		2	Time Weighted Average (TWA):	Indicative	ECTLV
Lead 7439-92-1 [LEAD AND ITS COMPOUNDS (EXCEPT TETRAETHYL LEAD)]		0,15	Time Weighted Average (TWA):	Binding OELV	IR_OEL
Lead 7439-92-1 [INORGANIC LEAD AND ITS COMPOUNDS]		0,15	Time Weighted Average (TWA):		EU_OEL
Lead 7439-92-1 [LEAD AND ITS IONIC COMPOUNDS]			Biological Limit Value:		EU_OEL_II
Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,05	Time Weighted Average (TWA):		IR_OEL
Rosin 8050-09-7 [ROSIN CORE SOLDER PYROLYSIS PRODUCTS (AS AIRBORNE TOTAL RESIN ACID)]		0,15	Short Term Exposure Limit (STEL):		IR_OEL

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# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value		Remarks		
			mg/l	ppm	mg/kg	others	
Tin	aqua						
7440-31-5	(freshwater)						
Tin	aqua (marine						
7440-31-5	water)						
Tin	sewage						
7440-31-5	treatment plant						
	(STP)						
Tin	sediment						
7440-31-5	(freshwater)						
Tin	sediment						
7440-31-5	(marine water)						
Tin	Air						
7440-31-5							
Tin	soil						
7440-31-5							
Tin	Predator						
7440-31-5							
Lead	aqua		5,6 µg/l				
7439-92-1	(freshwater)						
Lead	aqua (marine		3,4 µg/l				
7439-92-1	water)						
Lead	sediment				174 mg/kg		
7439-92-1	(freshwater)						
Lead	sediment				164 mg/kg		
7439-92-1	(marine water)						
Lead	soil				147 mg/kg		
7439-92-1							
Lead	oral				10,9 mg/kg		
7439-92-1							
Lead	sewage		100 μg/l				
7439-92-1	treatment plant						
Rosin	(STP)		0,002 mg/l			ļ	
8050-09-7	aqua		0,002 mg/1				
Rosin	(freshwater)		0,0002				
8050-09-7	aqua (marine						
8050-09-7 Rosin	water) sediment		mg/l	-	0,007		
8050-09-7	(freshwater)				mg/kg		
Rosin	sediment		+	+	0,001		
8050-09-7	(marine water)				mg/kg		
Rosin	soil		+	+	0,0001		+
8050-09-7	SOII				mg/kg		
Rosin	sewage		1000 mg/l	+	mg/Kg	-	
8050-09-7	treatment plant		1000 Hig/I				
0030-03-7	(STP)						
Rosin	aqua		0,016 mg/l	+		<del>                                     </del>	
8050-09-7	(intermittent		0,010 mg/1				
0030 07-1	releases)						
	TCICases)	1		1		1	1

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# **Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of	Health Effect	Exposure Time	Value	Remarks
m'		Exposure	т ,	1 ime	00 4	
Tin	General	dermal	Long term		80 mg/kg	
7440-31-5	population		exposure -			
			systemic effects			
Tin	Workers	inhalation	Long term		71 mg/m3	
7440-31-5			exposure -			
			systemic effects			
Tin	Workers	dermal	Long term		10 mg/kg	
7440-31-5			exposure -			
			systemic effects			
Tin	General	inhalation	Long term		17 mg/m3	
7440-31-5	population		exposure -			
			systemic effects			
Tin	General	oral	Long term		5 mg/kg	
7440-31-5	population		exposure -			
			systemic effects			
Rosin	Workers	inhalation	Long term		117 mg/m3	
8050-09-7			exposure -			
			systemic effects			
Rosin	Workers	dermal	Long term		17 mg/kg	
8050-09-7			exposure -			
			systemic effects			
Rosin	General	inhalation	Long term		35 mg/m3	
8050-09-7	population		exposure -			
	F - F		systemic effects			
Rosin	General	dermal	Long term		10 mg/kg	
8050-09-7	population		exposure -		3 - 5 - 5	
	F -F		systemic effects			
Rosin	General	oral	Long term	1	10 mg/kg	
8050-09-7	population	J	exposure -		10 1119/119	
10000 07 7	population		systemic effects			
			systemic criects			

#### **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

### Engineering controls:

Extraction is necessary to remove fumes evolved during reflow.

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Ensure good ventilation/extraction.

### Respiratory protection:

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## **SECTION 9: Physical and chemical properties**

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

Appearance solid

solid

grey Odor None

Odour threshold No data available / Not applicable

pH Not applicable

Melting point 183,0 - 188,0 °C (361.4 - 370.4 °F) Solidification temperature No data available / Not applicable

Initial boiling point Not determined Flash point Not applicable

Evaporation rate

No data available / Not applicable
Flammability

No data available / Not applicable
Explosive limits

No data available / Not applicable
Vapour pressure

No data available / Not applicable
No data available / Not applicable
Relative vapour density:

No data available / Not applicable

Density 8,5 g/cm<sup>3</sup>

(20 °C (68 °F))

Bulk density

No data available / Not applicable

Solubility

No data available / Not applicable

Solubility (qualitative) Insoluble
Partition coefficient: n-octanol/water Not applicable

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available / Not applicable

Explosive properties

No data available / Not applicable

Oxidising properties

No data available / Not applicable

# 9.2. Other information

No data available / Not applicable

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides. Reacts with strong oxidants.

### 10.2. Chemical stability

Stable under recommended storage conditions.

## 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

### 10.5. Incompatible materials

See section reactivity.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapors.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

### STOT-repeated exposure:

Causes damage to organs (Blood, Kidney, Central Nervous system) through prolonged or repeated exposure (inhalation-dust, oral)

## Inhalative toxicity:

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

### Dermal toxicity:

This product is considered to have low dermal toxicity.

#### Skin irritation:

Fumes emitted during soldering may irritate the skin.

#### Eye irritation:

Fumes emitted during soldering may irritate the eyes.

#### Sensitizing:

May cause an allergic skin reaction.

### Reproductive toxicity:

May damage fertility. May damage the unborn child.

May cause harm to breast-fed children.

#### Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Tin	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 423 (Acute
7440-31-5						Oral toxicity)
Rosin	LD50	2.800 mg/kg	oral		rat	not specified
8050-09-7						

## Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time	_	

### Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Tin	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
7440-31-5						Dermal Toxicity)
Rosin	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
8050-09-7						Dermal Toxicity)

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### Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Tin	not irritating		rabbit	OECD Guideline 404 (Acute
7440-31-5				Dermal Irritation / Corrosion)
Rosin	not irritating	4 h	rabbit	OECD Guideline 404 (Acute
8050-09-7				Dermal Irritation / Corrosion)

## Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Tin	not irritating		rabbit	OECD Guideline 405 (Acute
7440-31-5				Eye Irritation / Corrosion)
Rosin	not irritating		rabbit	OECD Guideline 405 (Acute
8050-09-7				Eye Irritation / Corrosion)

## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Tin 7440-31-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Rosin 8050-09-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

## Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
Tin	NOAEL $P = > 1.000 \text{ mg/kg}$	oral: gavage	56 days	rat	OECD Guideline 421
7440-31-5			-		(Reproduction /
					Developmental Toxicity
					Screening Test)

## Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Tin 7440-31-5	NOAEL=> 1.000 mg/kg	oral: gavage	28 daysdaily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

# **SECTION 12: Ecological information**

#### **General ecological information:**

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

## 12.1. Toxicity

## **Ecotoxicity:**

Do not empty into drains / surface water / ground water.

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time	_	
			Study			

## 12.2. Persistence and degradability

## Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Rosin 8050-09-7	readily biodegradable	aerobic	71 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle
0050 05 7				Test)

### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

#### Mobility:

The product is insoluble and sinks in water.

### **Bioaccumulative potential:**

No data available.

#### **Bioaccumulative potential:**

Octanol/Water distribution coefficient: Not applicable

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Rosin 8050-09-7	> 3 - 6,2	,				OECD Guideline 117 (Partition Coefficient (noctanol / water), HPLC Method)

## 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Tin	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7440-31-5	Bioaccumulative (vPvB) criteria.
Lead	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
7439-92-1	Bioaccumulative (vPvB) criteria.
Rosin	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
8050-09-7	Bioaccumulative (vPvB) criteria.

## 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product disposal:

Wherever possible unwanted solder alloy should be recycled for recovery of metal.

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Dispose of as unused product.

## Waste code

06 04 05 - wastes containing other heavy metals

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## **SECTION 14: Transport information**

### 14.1. UN number

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.2. UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.3. Transport hazard class(es)

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

## 14.4. Packing group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

#### 14.5. Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.6. Special precautions for user

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

VOC content (2010/75/EC) < 3 %

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### National regulations/information (Great Britain):

Remarks

The Health & Safety at Work Act 1974.

The Control of Lead at Work Regulations. L132:Control of Lead at Work: Approved Code of Practice and Guidance.

The Control of Substances Hazardous to Health Regulations. L5:General Approved Code of Practice to the COSHH Regulations. HS(G)97:A Step by Step Guide to the COSHH Regulations. HS(G)193:COSHH essentials: Easy steps to control chemicals.

IND (G)248L:Solder fume and you. IND(G)249L:Controlling health risks from rosin (colophony) based solder fluxes.

Employees should be under medical surveillance if the risk assessment made under the Control of Lead at Work Regulations indicates they are likely to be exposed to significant concentrations of lead, or if an Employment Medical Advisor or appointed doctor so certifies.

A woman employed on work which exposes her to lead should notify her employer as soon as possible if she becomes pregnant. The Employment Medical Advisor / Appointed Doctor should be informed of the pregnancy.

Under the Management of Health and Safety at Work Regulations, employers are required to assess the particular risks to health at work of pregnant workers and workers who have recently given birth or who are breast feeding.

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H317 May cause an allergic skin reaction.

H360FD May damage fertility. May damage the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

### **Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.