

**Paraplast® for histology**

article number: X880

Version: 1.1 en

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Version: (1)

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

**1.1 Product identifier**

Identification of the substance

**Paraplast® for histology**

Article number

X880

CAS number

145686-99-3

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

Relevant identified uses:

Laboratory chemical  
Laboratory and analytical use

Uses advised against:

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

**1.3 Details of the supplier of the safety data sheet**

Carl Roth GmbH + Co KG

Schoemperlenstr. 3-5

D-76185 Karlsruhe

Germany

**Telephone:**+49 (0) 721 - 56 06 0

**Telefax:** +49 (0) 721 - 56 06 149

**e-mail:** sicherheit@carlroth.de

**Website:** www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

**e-mail (competent person):**

sicherheit@carlroth.de

**1.4 Emergency telephone number**

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 (CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008 (CLP)**

not required

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

**Paraplast® for histology**

article number: X880

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

### **3.1 Substances**

Name of substance	Paraffin waxes
CAS No	145686-99-3

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

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

#### **Following skin contact**

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following eye contact**

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

Rinse mouth. Call a doctor if you feel unwell.

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

Symptoms and effects are not known to date.

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

none

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**



#### **Suitable extinguishing media**

co-ordinate firefighting measures to the fire surroundings  
water, foam, dry extinguishing powder, ABC-powder

#### **Unsuitable extinguishing media**

water jet

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

Combustible.

**Paraplast® for histology**

article number: X880

**Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), May produce toxic fumes of carbon monoxide if burning.

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**



**For non-emergency personnel**

No special measures are necessary.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water.

**6.3 Methods and material for containment and cleaning up**

**Advice on how to contain a spill**

Covering of drains. Take up mechanically.

**Advice on how to clean up a spill**

Take up mechanically.

**Other information relating to spills and releases**

Place in appropriate containers for disposal.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Provision of sufficient ventilation.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a dry place.

**Incompatible substances or mixtures**

Observe hints for combined storage.

**Consideration of other advice**

**Specific designs for storage rooms or vessels**

Recommended storage temperature: 15 – 25 °C

**7.3 Specific end use(s)**

No information available.

**Paraplast® for histology**

article number: X880

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

### **8.1 Control parameters**

#### **National limit values**

##### **Occupational exposure limit values (Workplace Exposure Limits)**

Data are not available.

### **8.2 Exposure controls**

#### **Individual protection measures (personal protective equipment)**

##### **Eye/face protection**



Use safety goggle with side protection.

##### **Skin protection**



###### **• hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

###### **• type of material**

NBR (Nitrile rubber)

###### **• material thickness**

>0,11 mm

###### **• breakthrough times of the glove material**

>480 minutes (permeation: level 6)

###### **• other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

##### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

##### **Environmental exposure controls**

Keep away from drains, surface and ground water.

**Paraplast® for histology**

article number: X880

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	solid
Form	pellets
Colour	white
Odour	odourless
Melting point/freezing point	56 °C
Boiling point or initial boiling point and boiling range	371 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	199 °C (c.c.)
Auto-ignition temperature	not determined
Decomposition temperature	not relevant
pH (value)	not applicable
Kinematic viscosity	not relevant

#### Solubility(ies)

Water solubility	not determined
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#### Partition coefficient

Partition coefficient n-octanol/water (log value):	this information is not available
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Vapour pressure	not determined
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Density	0,8 g/cm³
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Bulk density	400 – 500 kg/m³
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Particle characteristics	no data available
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#### Other safety parameters

Oxidising properties	none
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### 9.2 Other information

Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
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**Paraplast® for histology**

article number: X880

Other safety characteristics:

Temperature class (EU, acc. to ATEX)

T3

Maximum permissible surface temperature on the equipment: 200°C

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### **10.2 Chemical stability**

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### **10.3 Possibility of hazardous reactions**

**Violent reaction with:** strong oxidiser

### **10.4 Conditions to avoid**

There are no specific conditions known which have to be avoided.

### **10.5 Incompatible materials**

There is no additional information.

### **10.6 Hazardous decomposition products**

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

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

#### **Classification according to GHS (1272/2008/EC, CLP)**

This substance does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

#### **Acute toxicity**

Shall not be classified as acutely toxic.

<b>Acute toxicity</b>				
<b>Exposure route</b>	<b>Endpoint</b>	<b>Value</b>	<b>Species</b>	<b>Source</b>
oral	LD50	>5.000 mg/kg	rat	

#### **Skin corrosion/irritation**

Shall not be classified as corrosive/irritant to skin.

#### **Serious eye damage/eye irritation**

Shall not be classified as seriously damaging to the eye or eye irritant.

#### **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitisier.

#### **Germ cell mutagenicity**

Shall not be classified as germ cell mutagenic.

**Paraplast® for histology**

article number: X880

**Carcinogenicity**

Shall not be classified as carcinogenic.

**Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

**Specific target organ toxicity - single exposure**

Shall not be classified as a specific target organ toxicant (single exposure).

**Specific target organ toxicity - repeated exposure**

Shall not be classified as a specific target organ toxicant (repeated exposure).

**Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

**Symptoms related to the physical, chemical and toxicological characteristics**

**• If swallowed**

Data are not available.

**• If in eyes**

Data are not available.

**• If inhaled**

Data are not available.

**• If on skin**

Data are not available.

**Other information**

none

## SECTION 12: Ecological information

**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

**12.2 Persistence and degradability**

Data are not available.

**12.3 Bioaccumulative potential**

Data are not available.

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

Data are not available.

**12.6 Endocrine disrupting properties**

Not listed.

**12.7 Other adverse effects**

Data are not available.

**Paraplast® for histology**

article number: X880

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**



Consult the appropriate local waste disposal expert about waste disposal.

#### **Sewage disposal-relevant information**

Do not empty into drains.

### **13.2 Relevant provisions relating to waste**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Waste catalogue ordinance (Germany).

### **13.3 Remarks**

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## **SECTION 14: Transport information**

### **14.1 UN number or ID number**

not subject to transport regulations

### **14.2 UN proper shipping name**

not assigned

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

none

### **14.4 Packing group**

not assigned

### **14.5 Environmental hazards**

non-environmentally hazardous acc. to the dangerous goods regulations

### **14.6 Special precautions for user**

There is no additional information.

### **14.7 Maritime transport in bulk according to IMO instruments**

The cargo is not intended to be carried in bulk.

#### **Information for each of the UN Model Regulations**

##### **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information**

not assigned

##### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Not subject to IMDG.

##### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Not subject to ICAO-IATA.

**Paraplast® for histology**

article number: X880

## **SECTION 15: Regulatory information**

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

#### **Relevant provisions of the European Union (EU)**

##### **Restrictions according to REACH, Annex XVII**

not listed

##### **List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list**

not listed

##### **Seveso Directive**

###### **2012/18/EU (Seveso III)**

No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

###### **Deco-Paint Directive (2004/42/EC)**

VOC content	0 %
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###### **Directive on industrial emissions (VOCs, 2010/75/EU)**

VOC content	0 %
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###### **Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II**

not listed

###### **Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

not listed

###### **Water Framework Directive (WFD)**

not listed

###### **Regulation 98/2013/EU on the marketing and use of explosives precursors**

not listed

###### **Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

not listed

###### **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**

not listed

###### **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**

not listed

### **15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance.

**Paraplast® for histology**

article number: X880

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Alignment to regulation: Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: section 9, section 14

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Disclaimer

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