

according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 1 of 10

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

### 1.1. Product identifier

Hematoxylin acidic after MAYER - (S)

UFI: H8X1-P10C-800Y-72TG

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

#### Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

### Uses advised against

Any non-intended use.

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

Company name: MORPHISTO GmbH Street: Schumannstr. 144 Place: D-63069 Offenbach

Telephone: +49 (0) 69 / 400 3019-60 Telefax: +49 (0) 69 / 400 3019-64

e-mail: info@morphisto.de Contact person: Morphisto GmbH

e-mail: gefahrstoffmanagement@morphisto.de

Internet: http://www.morphisto.de

**1.4. Emergency telephone** Morphisto GmbH, Tel: +49(0)69 400 3019-60, Mo-Fr.: 09-16Uhr

number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

## 2.2. Label elements

# **GB CLP Regulation**

## Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

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

## 3.2. Mixtures



according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 2 of 10

#### **Hazardous components**

CAS No	Chemical name	Chemical name			
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
302-17-0	chloral hydrate				
	206-117-5	605-014-00-6	01-2120117773-57		
	Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2; H301 H315 H319				

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. L	Specific Conc. Limits, M-factors and ATE			
302-17-0	206-117-5	06-117-5 chloral hydrate			
	dermal: LD50 =	: 3030 mg/kg; oral: LD50 = 479 mg/kg			

## **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

### **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

Provide fresh air. In case of respiratory tract irritation, consult a physician.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. After contact with skin, wash immediately with: Water. Remove contaminated, saturated clothing immediately. In case of skin irritation, seek medical treatment.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

# After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

## 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

Co-ordinate fire-fighting measures to the fire surroundings. Extinguishing powder. Foam. Carbon dioxide (CO2). Water spray.

## Unsuitable extinguishing media

High power water jet.





according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 3 of 10

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

Non-flammable. In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Hydrogen chloride (HCI). hydrogen iodide (HJ). Sulfur oxides.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

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

#### General advice

Provide adequate ventilation.

Do not breathe gas/fumes/vapour/spray.

Wear personal protection equipment. (See section 8.)

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

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

#### Other information

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

### 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

Wear suitable protective clothing. ( See section 8. )

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

# Further information on handling

Conditions to avoid: Generation/formation of aerosols

# 7.2. Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Keep container tightly closed and in a well-ventilated place.

Recommended storage temperature: 15-25 °C Unsuitable materials for Container: metal.

## Hints on joint storage

Do not store together with: Oxidizing substances. Food and fodder

## Further information on storage conditions

Keep/Store only in original container.

## 7.3. Specific end use(s)

No information available.



according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 4 of 10

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

### 8.1. Control parameters

### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
302-17-0	chloral hydrate				
Worker DNEL,	long-term	inhalation	systemic	1,716 mg/m³	
Worker DNEL, long-term		dermal	1 -	0,973 mg/kg bw/day	

### **PNEC values**

CAS No	Substance		
Environmental compartment Value			
302-17-0	chloral hydrate		
Freshwater		0,115 mg/l	
Marine water	ī	0,011 mg/l	
Freshwater s	sediment	0,09 mg/kg	
Marine sedin	nent	0,009 mg/kg	
Micro-organi	7,9 mg/l		
Soil			

### Additional advice on limit values

To date, no national critical limit values exist.

## 8.2. Exposure controls

## Appropriate engineering controls

refer to chapter 7. No further action is necessary.

# Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye/face protection. Suitable eye protection: Tightly sealed safety glasses. EN 166

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period): >= 8 Stunden):

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

FKM (fluororubber). (0,4 mm)

Butyl rubber. (0,5 mm)

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well. NR (Natural rubber (Caoutchouc), Natural latex).

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

### Skin protection

Use of protective clothing. Suitable protective clothing: Lab apron.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:



according to UK REACH Regulation

## Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 5 of 10

aerosol or mist generation.

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Filtertyp: B-P2/P3

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

## 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: red violet
Odour: characteristic

Melting point/freezing point:

Boiling point or initial boiling point and

not determined
not determined

boiling range:

Flammability: not applicable Lower explosion limits: not determined Upper explosion limits: not determined Flash point: not determined Decomposition temperature: not determined pH-Value: 2-3 Viscosity / kinematic: not determined Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Vapour pressure:

Density:

Relative vapour density:

not determined

1,03 g/cm³

not determined

## 9.2. Other information

## Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive

Self-ignition temperature

Solid: not applicable
Gas: not applicable

Oxidizing properties

none

## Other safety characteristics

Evaporation rate: not determined Solvent content: No information available. Solid content: not determined

Further Information

# No information available.

# 10.1. Reactivity

No information available.

**SECTION 10: Stability and reactivity** 

## 10.2. Chemical stability

Stable under normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No information available.



according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 6 of 10

### 10.4. Conditions to avoid

heat.

### 10.5. Incompatible materials

Oxidizing agents, strong, perchloric acid. Aluminium. Iron. Amines. alkali hydroxide

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Hydrogen chloride (HCI). hydrogen iodide (HJ). Sulfur oxides.

### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Acute toxicity**

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

### **ATEmix calculated**

ATE (oral) 2202,6 mg/kg

CAS No	Chemical name	Chemical name					
	Exposure route	Dose		Species	Source	Method	
302-17-0	chloral hydrate	chloral hydrate					
	oral	LD50 mg/kg	479	Rat	suppliers SDS.		
	dermal	LD50 mg/kg	3030	Rat	suppliers SDS.		

## Irritation and corrosivity

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

# Sensitising effects

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

## Carcinogenic/mutagenic/toxic effects for reproduction

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

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

### Aspiration hazard

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

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 11.2. Information on other hazards

### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

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



according to UK REACH Regulation

## Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 7 of 10

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
302-17-0	chloral hydrate	chloral hydrate					
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio (zebrafish)	ECHA	
	Acute crustacea toxicity	EC50	>98 mg/l		Daphnia magna (Big water flea)	ECHA	
	Crustacea toxicity	NOEC	65 mg/l		Daphnia magna (Big water flea)	suppliers SDS.	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
302-17-0	chloral hydrate					
	Biodegradability	44,04 %	28			
	Biodegradable.					

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
302-17-0	chloral hydrate	1,092

## **BCF**

CAS No	Chemical name	BCF	Species	Source
302-17-0	chloral hydrate	3,162	suppliers SDS.	

### 12.4. Mobility in soil

The product has not been tested.

## 12.5. Results of PBT and vPvB assessment

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

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

## **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

## List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste



according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 8 of 10

### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID 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.

Other applicable information (land transport)

Not restricted

#### Marine transport (IMDG)

14.1. UN number or ID 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.

Other applicable information (marine transport)

Not restricted

### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID 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.

Other applicable information (air transport)

Not restricted

## 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Refer to section 6-8

# 14.7. Maritime transport in bulk according to IMO instruments

not relevant

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to 2012/18/EU

Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

## **Additional information**





according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 9 of 10

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP].

### **National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

#### **SECTION 16: Other information**

### Changes

Rev. 2,0; 13.06.2023; Recreation from collect\_SDB 10231

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

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 EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu



according to UK REACH Regulation

# Hematoxylin acidic after MAYER - (S)

Revision date: 13.06.2023 Product code: 11895.xxxxx Page 10 of 10

# Relevant H and EUH statements (number and full text)

H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

EUH210 Safety data sheet available on request.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. 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.)