

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Hämatoxylin, purif.

Revision date: 18.06.2012

Product code: 12488.xxxxx

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

### 1.1. Product identifier

Hämatoxylin, purif.

### 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

none

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

Company name:	MORPHISTO GmbH	
Street:	Weismüllerstr. 45	
Place:	D-60314 Frankfurt am Main	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
e-mail:	info@morphisto.de	
Internet:	http://www.morphisto.de	

### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

sec-butyl acetate

Signal word: Warning

#### Pictograms:



#### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P312 Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313  
P501If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container to in accordance with official regulations .

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Further Information

Full text of R- and H-phrases: see section 16.

## 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

No special measures are necessary. In all cases of doubt, or when symptoms persist, seek medical advice.

#### After contact with skin

Wash with plenty of water. 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 troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). In all cases of doubt, or when symptoms persist, seek medical advice.

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

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### 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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

none

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

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

### 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

Wear personal protection equipment. (See section 8. )

### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

Take up mechanically.

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Treat the recovered material as prescribed in the section on waste disposal.  
Clear contaminated areas thoroughly. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **6.4. Reference to other sections**

See protective measures under point 7 and 8.

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

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Wear suitable protective clothing. ( See section 8. ) Do not breathe dust.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

##### **Further information on handling**

Conditions to avoid: Generation/formation of dust

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

##### **Requirements for storage rooms and vessels**

Keep container tightly closed and in a well-ventilated place. Recommended storage temperature: 20°C

##### **Hints on joint storage**

Do not store together with: Oxidizing substances.

##### **Further information on storage conditions**

Keep/Store only in original container. Protect against: frost. heat. Cold. Humidity

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

#### **8.1. Control parameters**

##### **Additional advice on limit values**

Does not contain substances above concentration limits fixing an occupational exposure limit.

#### **8.2. Exposure controls**



##### **Appropriate engineering controls**

refer to chapter 7. No further action is necessary.

##### **Protective and hygiene measures**

Always close containers tightly after the removal of product.

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

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

##### **Hand protection**

In case of prolonged or frequently repeated skin contact:

Pull-over gloves of rubber. EN ISO 374

Suitable material:

Butyl rubber.

FKM (fluororubber).

CR (polychloroprenes, Chloroprene rubber).

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.

##### **Skin protection**

Suitable protective clothing: Lab apron.

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**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

**Environmental exposure controls**

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid	
Colour:	light brown	
Odour:	odourless	
pH-Value:		N/A

**Changes in the physical state**

Melting point:	139-141 °C
Initial boiling point and boiling range:	N/A
Flash point:	N/A

**Flammability**

Solid:	not determined
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature:	not determined

**Oxidizing properties**

none	
Vapour pressure:	not determined
Density:	not determined
Bulk density (at 20 °C):	500 kg/m <sup>3</sup>
Water solubility:	partially soluble

**Solubility in other solvents**

none	
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

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**10.2. Chemical stability**

Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

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**10.4. Conditions to avoid**

Keep away from heat. Protect against: frost. Light.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong.

**10.6. Hazardous decomposition products**Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
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##### **Irritation and corrosivity**

Causes skin irritation.  
Causes serious eye irritation.  
There are no data available on the preparation/mixture itself.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
Ames test negative.  
HAWORTH,S, LAWLOR,T MORTELMANS,K, SPECK,W AND ZEIGER,E; SALMONELLA MUTAGENICITY TEST RESULTS FOR 250 CHEMICALS; ENVIRON. MUTAGEN. 5(SUPPL. 1): 3-142, 1983

##### **STOT-single exposure**

May cause respiratory irritation.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

##### **Aspiration hazard**

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

##### **Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

### SECTION 12: Ecological information

#### 12.1. Toxicity

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#### 12.2. Persistence and degradability

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#### 12.3. Bioaccumulative potential

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#### 12.4. Mobility in soil

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#### 12.5. Results of PBT and vPvB assessment

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### 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.

##### **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

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**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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

**14.1. UN number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**Inland waterways transport (ADN)**

**14.1. UN number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**Marine transport (IMDG)**

**14.1. UN number:** Not restricted

**14.2. UN proper shipping name:** Not restricted

**Other applicable information (marine transport)**

Not restricted

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

Not restricted

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

18.06.2012 Rev.1.0 Initial release

**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)

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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  
SVHC: substances of very high concern  
PBT: Substances which are persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative

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

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### Further Information

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.)*