



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 21/06/2023 Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture

Product name : Morphine for system suitability

Product code : 202300230

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

#### 1.2.1. Relevant identified uses

Main use category : The product is intended for research, analysis and scientific education.

Use of the substance/mixture : For professional use only Function or use category : Laboratory chemicals

1.2.2. Uses advised against

Restrictions on use : Do not use : Ingestion, Inhalation, Dermal

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

European Directorate for the Quality of Medicines & Healthcare

EDQM, Council of Europe 7, Allée Kastner, CS30026

F-67081 Strasbourg

France

T +33(0)388412035 - F +33(0)388412771

sds@edqm.eu - www.edqm.eu

#### 1.4. Emergency telephone number

Emergency number : +33(0)390215608

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

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302
Germ cell mutagenicity, Category 2 H341
Reproductive toxicity, Category 2 H361
Reproductive toxicity, Additional category, Effects on or via lactation H362
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336

Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Expert judgement and weight of evidence determination.

### 2.2. Label elements

## Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS07

GHS08

Signal word (CLP) : W

Contains : Morphine hydrochloride trihydrate; Oripavine; Morphine N-oxide

Hazard statements (CLP) : H302 - Harmful if swallowed.

H336 - May cause drowsiness or dizziness. H341 - Suspected of causing genetic defects.

H361 - Suspected of damaging fertility or the unborn child.

H362 - May cause harm to breast-fed children.

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Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P263 - Avoid contact during pregnancy and while nursing.

P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTRE or doctor if you feel unwell.

P330 - Rinse mouth.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH208 - Contains Oripavine, Morphinone, Morphine N-oxide. May produce an allergic

reaction.

Labelling according to: exemption for inner packaging where the contents do not exceed 10ml

Hazard pictograms (CLP)

**EUH-statements** 



GHS08

Hazardous ingredients : Morphine hydrochloride trihydrate; Oripavine; Morphinone; Morphine N-oxide

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Morphine hydrochloride trihydrate	-	≤ 100	Acute Tox. 4 (Oral), H302 (ATE=335 mg/kg bodyweight) Muta. 2, H341 Repr. 2, H361 Lact., H362 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Oripavine	-	≤ 0,2	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361
Morphinone	-	≤ 0,2	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Resp. Sens. 1, H334 Skin Sens. 1, H317
Morphine N-oxide	-	≤ 0,2	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0,5 mg/l/4h) Resp. Sens. 1, H334 Skin Sens. 1, H317 Repr. 2, H361fd Lact., H362

Full text of H- and EUH-statements: see section 16

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after skin contact : Wipe off as much as possible (using a clean, soft, absorbent material).

First-aid measures after eye contact : Rinse eyes with water as a precaution.

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

No additional information available

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

No additional information available

## **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Extinguishing blanket.

# 5.2. Special hazards arising from the substance or mixture

Fire hazard : See Heading 2.2.

# 5.3. Advice for firefighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire.

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

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

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Avoid all unnecessary exposure.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

No additional information available

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

No additional information available

#### 6.4. Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

No additional information available

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

No additional information available

### 7.3. Specific end use(s)

See Heading 1.

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

## 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

## 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

## 8.2.1. Appropriate engineering controls

## Appropriate engineering controls:

Keep in a well-ventilated room. Both local exhaust and general room ventilation are usually required.

#### 8.2.2. Personal protection equipment

#### 8.2.2.1. Eye and face protection

No additional information available

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#### 8.2.2.2. Skin protection

#### Skin and body protection:

Lab coat

#### Hand protection:

Protective gloves

#### 8.2.2.3. Respiratory protection

No additional information available

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

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

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

Physical state Colour Not available Odour Not available Odour threshold : Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not available **Explosive limits** : Not applicable Lower explosion limit : Not applicable : Not applicable Upper explosion limit Flash point : Not applicable Auto-ignition temperature : Not applicable : Not available Decomposition temperature : Not available рΗ pH solution : Not available Viscosity, kinematic : Not applicable Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available : Not applicable Relative vapour density at 20°C

## 9.2. Other information

Particle size

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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

## 10.1. Reactivity

Stable under normal conditions.

: Not available

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#### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

None known.

# 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

None under normal use. See Section 7.

### 10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

# **SECTION 11: Toxicological information**

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

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Morphine for system suitability		
ATE CLP (oral)	331,264 mg/kg bodyweight	
Morphine hydrochloride trihydrate		
LD50 oral rat	335 mg/kg RTECS : QC8590000	
Oripavine		
LD50 oral rat	50 – 100 mg/kg	
LD50 dermal rat	200 – 1000 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	0,5 – 1 mg/l/4h	
Morphine N-oxide		
LD50 oral rat	50 – 300 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	0,5 – 1 mg/l/4h	
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met)	
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met)	

, 3	,	
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: Suspected of causing genetic defects.	

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

STOT-single exposure : May cause drowsiness or dizziness.

Morphine hydrochloride trihydrate		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified (Based on available data, the classification criteria are not met)	

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

#### 11.2. Information on other hazards

No additional information available

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# **SECTION 12: Ecological information**

## 12.1. Toxicity

Ecology - general : Presents no specific risk for the environment.

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term : Not classified (Based on available data, the classification criteria are not met)

(chronic)

Not rapidly degradable

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

No additional information available

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID r	14.1. UN number or ID number			
Not applicable	Not applicable	Not applicable		
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable		
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable		
14.4. Packing group				
Not applicable	Not applicable	Not applicable		
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable		
No supplementary information available				

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#### 14.6. Special precautions for user

#### **Overland transport**

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

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

Not applicable

## **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not applicable.

## **POP Regulation (Persistent Organic Pollutants)**

Not applicable.

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	n) Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	

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Full text of H- and EUH-statements:		
EUH208	Contains Oripavine, Morphinone, Morphine N-oxide. May produce an allergic reaction.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H311	Toxic in contact with skin.	
H317	May cause an allergic skin reaction.	
H331	Toxic if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H336	May cause drowsiness or dizziness.	
H341	Suspected of causing genetic defects.	
H361	Suspected of damaging fertility or the unborn child.	
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.	
H362	May cause harm to breast-fed children.	
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Acute Tox. 4 (Oral)	H302	Calculation method
Muta. 2	H341	Calculation method
Repr. 2	H361	Calculation method
Lact.	H362	Calculation method
STOT SE 3	H336	Calculation method

Safety Data Sheet (SDS), EU

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