

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 30.01.2013

### Colchicin-NaCl-Lösung

Product code: 14162.xxxxx

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

### 1.1. Product identifier

Colchicin-NaCl-Lösung

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

#### Use of the substance/mixture

Use as laboratory reagent.

#### Uses advised against

Not known

### 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:

Germ cell mutagenicity: Muta. 1B

Hazard Statements:

May cause genetic defects.

### 2.2. Label elements

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

#### Hazard components for labelling

colchicine

Signal word: Danger

Pictograms:



#### Hazard statements

H340 May cause genetic defects.

#### Precautionary statements

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P281 Use personal protective equipment as required.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container to in accordance with official regulations.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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**Chemical characterization**

aqueous solution

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
64-86-8	colchicine			< 1 %
	200-598-5	614-005-00-6		
	Muta. 1B, Acute Tox. 2; H340 H300			

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

**Further Information**

Product does not contain listed SVHC substances &gt; 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**

@1501.B015819 In case of irregular breathing or respiratory arrest provide artificial respiration. Put victim at rest, cover with a blanket and keep warm. In case of breathing difficulties administer oxygen. Immediately call a POISON CENTER/doctor/??.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap. If skin irritation occurs: Get medical advice/attention.

**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). Immediately call a POISON CENTER/doctor/??.

**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**Water spray.  
alcohol resistant foam.  
dry extinguishing powder.**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

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#### **5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

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**

Remove persons to safety. Ventilate affected area. Wear personal protection equipment. Do not breathe gas/fumes/vapour/spray. (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**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clear contaminated areas thoroughly.

#### **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**

Use extractor hood (laboratory). The product should only be handled by persons over the age of 18, who were informed sufficiently about the dangerous nature of the product and about the necessary safety precautions.

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

Usual measures for fire prevention.

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

Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray.

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

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

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight. @1501.B015825

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

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Infectious substances. Radioactive substances.

Gases under pressure. Peroxides. ammonium nitrate.

#### **7.3. Specific end use(s)**

Use as laboratory reagent.

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

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

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

To date, no national critical limit values exist.

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

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**Appropriate engineering controls**

Use extractor hood (laboratory). Provide adequate ventilation as well as local exhaust at critical locations.

**Protective and hygiene measures**

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

**Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible).

**Hand protection**

Pull-over gloves of rubber. EN ISO 374

Suitable material:

(penetration time (maximum wearing period):  $\geq 8$  hours. ):

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

NBR (Nitrile rubber). (0,35 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 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.

**Skin protection**

Lab apron.

**Respiratory protection**

aerosol or mist generation.

Suitable respiratory protective equipment:

Combination filtering device (EN 14387) Type : P3

**Environmental exposure controls**

@1501.B015774

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

Physical state:	liquid
Colour:	light yellow
Odour:	odourless

**Changes in the physical state**

Initial boiling point and boiling range:	not determined
Flash point:	not determined
Lower explosion limits:	
Upper explosion limits:	
Density (at 20 °C):	~1 g/cm <sup>3</sup>
Water solubility:	completely miscible

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

No information available.

**10.2. Chemical stability**

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Stable under normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

No information available.

**10.4. Conditions to avoid**

heat. moisture.

**10.5. Incompatible materials**

Materials to avoid: Strong acid. Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

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

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects**
**Toxicokinetics, metabolism and distribution**

No information available.

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-86-8	colchicine				
	oral	LD50 mg/kg	5,89	Mouse.	HSDB

**Irritation and corrosivity**

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

Irritant effect on the eye: Not an irritant.

Irritant effect on the skin: Not an irritant.

**Sensitising effects**

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

The statement is derived from the properties of the single components.: not sensitising.

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

May cause genetic defects. (colchicine)

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

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

Evidence exists for mutagenicity in vivo .

**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.

No information available.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No information available.

**SECTION 12: Ecological information**
**12.1. Toxicity**

colchicine:

Acute fish toxicity: 1mg/L (Oncorhynchus mykiss )

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Exposure time: 9d

Andersen, H.R., A.M. Andersson, S.F. Arnold, H. Autrup, M. Barfoed, N.A. Beresford, P. Bjerregaard, L.B.

Christiansen, B., 1999

**12.2. Persistence and degradability**

Product is biodegradable.

**12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
64-86-8	colchicine	1,03

**12.4. Mobility in soil**

No information available.

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

No information available.

**Further information**

Do not allow uncontrolled discharge of product into the environment.

**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

**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)****14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

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

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Restrictions on use (REACH, annex XVII):

Entry 29: colchicine

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

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**

30.01.2013 Rev.1.0 Neuerstellung

**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

NOAEC: No observed adverse effect concentration

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

H300 Fatal if swallowed.

H340 May cause genetic defects.

**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.)*