

Safety Data Sheet according to Regulation (EC) No 1907/2006

CITO-SYSTEM GmbH CITOCLYN Man

Revision date: 10.09.2020 Revision No: 1,0

Product code: 11458-0029

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

# 1.1. Product identifier

**CITOCLYN Man** 

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

### Use of the substance/mixture

Cleaning agent

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

Company name: CITO-SYSTEM GmbH

Street: Haimendorfer Straße 37 + 46

Place: D-90571 Schwaig
Telephone: +49 (0)911/95885-0
Telefax: +49 (0)911/95885-50

e-mail: info@cito.de Internet: www.cito.de

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

**1.4. Emergency telephone** INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)

number: In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

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

# 2.1. Classification of the substance or mixture according to 1272/2008/EC

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### 2.2. Label elements

## Hazard components for labelling

caustic potash, potassium hydroxide

disodium metasilicate

fatty alcohol ethoxylate C9-C11

Signal word: Danger

Pictograms:



# **Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

**Precautionary statements** 

P260 Do not breathe spray.

P264 Wash hands thoroughly after handling.

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





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protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

2.3. Other hazards

No information available.

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

#### 3.2. Mixtures

#### **Chemical characterization**

Mixture containing following substances with additives

### **Hazardous components**

CAS No	Chemical name							
	EC No	Index No	REACH No					
	GHS Classification							
1310-58-3	caustic potash, potassium hydro	10 - < 15 %						
	215-181-3	019-002-00-8	01-2119487136-33					
	Acute Tox. 4, Skin Corr. 1A; H302 H314							
6834-92-0	disodium metasilicate		5 - < 10 %					
	229-912-9	014-010-00-8	01-2119449811-37					
	Skin Corr. 1B, STOT SE 3; H314 H335							
68439-46-3	fatty alcohol ethoxylate C9-C11							
	Skin Irrit. 2, Eye Dam. 1; H315 H318							

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

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

#### 4.1. Description of first aid measures

#### **General information**

First aider: Pay attention to self-protection!

Take away from danger area and lay down affected person.

### After inhalation

Ensure of fresh air.

Medical treatment necessary.

#### After contact with skin

In case of contact with skin wash off immediately with soap and water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/ attention.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

# After ingestion

Observe risk of aspiration if vomiting occurs.

Rinse mouth immediately and drink plenty of water.





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Adverse human health effects and symptoms: Gastric perforation

Seek medical treatment immediately. Do not give neutralising liquids.

### 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 symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

# Unsuitable extinguishing media

Full water jet

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

Non-flammable.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

Wear full protective suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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

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

Ensure adequate ventilation.

Do not breathe gas/fumes/vapour/aerosol.

Avoid contact with skin, eyes and clothing.

Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/ground water.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

#### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe gas/fumes/vapour/aerosol.

# Advice on protection against fire and explosion

No special protective measures against fire required.

# 7.2. Conditions for safe storage, including any incompatibilities





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### Requirements for storage rooms and vessels

Keep container tightly closed.

Keep locked up.

Store in a place accessible by authorized persons only.

Provide adequate ventilation as well as local exhaustion at critical locations.

# Hints on joint storage

No special precautions required.

## 7.3. Specific end use(s)

Cleaning agent

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

#### 8.1. Control parameters

## **Exposure limits (EH40)**

CAS N	lo	Substance	ppm	mg/m³	fibres/ml	Category	Origin
1310-	58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL
57-55-	-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

#### 8.2. Exposure controls

## Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe gas/fumes/vapour/aerosol.

#### Protective and hygiene measures

Remove soiled or soaked clothing immediately.

Draw up and observe skin protection programme

Wash hands and face before breaks and after work and take a shower if necessary.

At work do not eat, drink, smoke or take drugs.

### Eye/face protection

Suitable eye protection: goggles.

# **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.

#### Skin protection

Wear suitable protective clothing

# Respiratory protection

If ventilation insufficient, wear respiratory protection.

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

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

Physical state: Liquid
Colour: Colourless
Odour: Characteristic

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pH-Value (at 20 °C):

Changes in the physical state

Explosive properties The product is not explosive.

Lower explosion limits:n.d.Upper explosion limits:n.d.Auto-ignition temperaturen.a.Decomposition temperature:n.d.

Oxidizing properties Not oxidising.

Vapour pressure: n.d.

(at 20 °C)

Density (at 20 °C): 1,077 g/cm³ Water solubility: Miscible

(at 20 °C)

Solvent content: 0,21 %

9.2. Other information

Solid content: n.d.

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

## 10.1. Reactivity

Possibility of hazardous reactions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

Exothermic reaction with: acids, oxidizing agents, Peroxides

## 10.4. Conditions to avoid

No/keiner

#### 10.5. Incompatible materials

Keep away from: acids, oxidizing agents, Peroxides

# 10.6. Hazardous decomposition products

No hazardous decomposition products known.

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

# 11.1. Information on toxicological effects

### **Acute toxicity**

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

caustic potash, potassium hydroxide

LD50/oral/rat: 273 mg/kg

fatty alcohol ethoxylate C9-C11 LD50/oral/rat: > 2000 mg/kg Irritation and corrosivity





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Causes severe skin burns and eye damage.

Causes serious eye damage.

## Sensitising effects

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

#### STOT-single exposure

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

#### Severe effects after repeated or prolonged exposure

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.

#### **Aspiration hazard**

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

#### Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

#### **Practical experience**

#### Other observations

Contact with eyes or skin may cause irritation.

May cause sensitization of susceptible persons by skin contact.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

caustic potash, potassium hydroxide

LC50/Gambusia affinis/96 h = 80 mg/l

fatty alcohol ethoxylate C9-C11

LC50/Pimephales promelas/96 h = 8,5 mg/l

EC50/Daphnia magna/48 h = 5,3 mg/l [OECD 202]

### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

Do not discharge into the subsoil/soil.

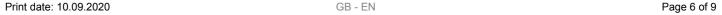
# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not discharge into the drains or bodies of water.

Do not discharge into the subsoil/soil.







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Disposal in accordance with local regulations.

List of Wastes Code - residues/unused products

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium

and potassium hydroxide; hazardous waste

List of Wastes Code - used product

060204 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; sodium

and potassium hydroxide; 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

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be

taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

# **SECTION 14: Transport information**

Land transport (ADR/RID)

**14.1. UN number:** UN 1814

14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Classification code: C5
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 80
Tunnel restriction code: E

Inland waterways transport (ADN)

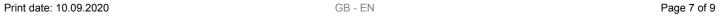
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Limited quantity: 1 L
Excepted quantity: E2





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Marine transport (IMDG)

**14.1. UN number:** UN 1814

14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Limited quantity: 1 L
Excepted quantity: E2
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1814

14.2. UN proper shipping name: POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIHazard label:8



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3 A803

0.5 L

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:851IATA-max. quantity - Passenger:1 LIATA-packing instructions - Cargo:855IATA-max. quantity - Cargo:30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Strong corrosive

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

**SECTION 15: Regulatory information** 

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

**EU regulatory information** 

2004/42/EC (VOC): 0,213 % (2,289 g/l)

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

(SEVESO III):

National regulatory information



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Employment restrictions:

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Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

15.2. Chemical safety assessment

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

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

#### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H335 May cause respiratory irritation.

# **Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

