

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### CITOCLYN Anilox

Revision date: 02.06.2021

Product code: 11458-0030

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

### 1.1. Product identifier

CITOCLYN Anilox

### 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 number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

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

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

##### Hazard components for labelling

caustic potash, potassium hydroxide

2-aminoethanol; ethanolamine

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.

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P280	Wear protective gloves/protective clothing/eye protection/face 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	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
1310-58-3	caustic potash, potassium hydroxide	5 - < 10 %
	215-181-3	
	019-002-00-8	
	01-2119487136-33	
	Acute Tox. 4, Skin Corr. 1A; H302 H314	
141-43-5	2-aminoethanol; ethanolamine	1 - < 5 %
	205-483-3	
	603-030-00-8	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1; H332 H312 H302 H314 H318	

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. Limits, M-factors and ATE	
1310-58-3	215-181-3	caustic potash, potassium hydroxide	5 - < 10 %
		oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	
141-43-5	205-483-3	2-aminoethanol; ethanolamine	1 - < 5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1025 mg/kg; oral: LD50 = 1515 mg/kg STOT SE 3; H335: >= 5 - 100	

### 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.

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#### After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of 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.

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

##### General measures

Ensure adequate ventilation.

##### For non-emergency personnel

Do not breathe gas/fumes/vapour/aerosol.

Avoid contact with skin, eyes and clothing.

##### For emergency responders

Use personal protective clothing.

In case of vapour formation use respirator.

#### 6.2. Environmental precautions

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

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

##### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For 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

##### 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 No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
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.

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Draw up and observe skin protection programme  
Wash hands and face before breaks and after work and take a shower if necessary.  
Do not eat or drink when working.

#### 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
pH-Value (at 20 °C):	13

#### Changes in the physical state

Melting point:	n.d.
Boiling point or initial boiling point and boiling range:	100 °C
Flash point:	n.d.

#### Flammability

Solid/liquid:	n.a.
Gas:	n.a.

#### Explosive properties

The product is not explosive.

Lower explosion limits:	n.d.
Upper explosion limits:	n.d.

#### Self-ignition temperature

Solid:	n.a.
Gas:	n.a.

Decomposition temperature:	n.d.
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#### Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	n.d.
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Density (at 20 °C):	1,06 g/cm <sup>3</sup>
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Water solubility:  
(at 20 °C)

Miscible

#### **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 hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Based on available data, the classification criteria are not met.  
caustic potash, potassium hydroxide  
LD50/oral/rat: 273 mg/kg2-aminoethanol; ethanolamine  
LD50/oral/rat: 1515 mg/kg  
LD50/dermal/rabbit: 1025 mg/kg

##### **Irritation and corrosivity**

Causes severe skin burns and eye damage.  
Causes serious eye damage.

##### **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**

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

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#### 11.2. Information on other hazards

##### **Endocrine disrupting properties**

No information available.

##### **Other information**

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/l2-aminoethanol; ethanolamine  
LC50/Oncorhynchus mykiss/96 h = 150 mg/l  
ErC50/Desmodesmus subspicatus/72 h = 22 mg/l  
EC50/Daphnia magna/48 h = 65 mg/l

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.  
2-aminoethanol; ethanolamine: Log Pow: -1,91 (25°C)

#### 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. Endocrine disrupting properties

No information available.

#### 12.7. 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.

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

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#### 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):** 8  
**14.4. Packing group:** II  
Hazard 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)

**14.1. UN number:** UN 1814  
**14.2. UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C5  
Limited quantity: 1 L  
Excepted quantity: E2

#### Marine transport (IMDG)

**14.1. UN number:** UN 1814  
**14.2. UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II



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Hazard 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):**

8

**14.4. Packing group:**

II

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

0.5 L

Passenger LQ:

Y840

Excepted quantity:

E2

IATA-packing instructions - Passenger:

851

IATA-max. quantity - Passenger:

1 L

IATA-packing instructions - Cargo:

855

IATA-max. quantity - Cargo:

30 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

#### 14.6. Special precautions for user

Warning: Strong corrosive

#### 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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC):

2,85 % (32,775 g/l)

Information according to 2012/18/EU (SEVESO III):

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

##### National regulatory information

Employment restrictions:

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

Water hazard class (D):

1 - slightly hazardous to water

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#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,8,9,11,12,13,15.

#### 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

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Met. Corr. 1; H290	Quantitative structure-activity relationship (QSAR)
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

#### 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.



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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)

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