

according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxxx

Page 1 of 10

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

### 1.1. Product identifier

Creatinine Standard 200 mg/l

UFI:

00TM-71XU-T00X-UYDM

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

Use of the substance/mixture

laboratory reagent

### Uses advised against

Any non-intended use.

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

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.d	e
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Morphisto GmbH, Tel: +49(0)69 400 3	019-60, Mo-Fr.: 09-16 Uhr

#### <u>number:</u>

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

### 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

# 2.2. Label elements

#### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1% or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

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

# 3.2. Mixtures

### **Relevant ingredients**

none (according to UK REACH Regulation)

### **Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.



according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxxx

Page 2 of 10

### **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

Provide fresh air. In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment. Take off contaminated clothing and wash it before reuse.

### After contact with eyes

Rinse cautiously with water for several minutes. 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). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

#### 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

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

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

Non-flammable. In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

#### 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. Co-ordinate fire-fighting measures to the fire surroundings.

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

# 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Safe handling: see section 7 Personal protection equipment: 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

# For cleaning up

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

according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxx

Page 3 of 10

recovered material as prescribed in the section on waste disposal.

# Other information

Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Wear suitable protective clothing. (See section 8.)

### Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Advice on general occupational hygiene

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

#### Further information on handling

General protection and hygiene measures: See section 8.

#### 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.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 4°C Protect against: frost. UV-radiation/sunlight. heat. Humidity

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

See section 1.

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

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

#### **DNEL/DMEL values**

CAS No	Substance		-	
DNEL type		Exposure route	Effect	Value
7647-01-0	hydrochloric acid %			
Worker DNEL,	acute	inhalation	local	15 mg/m³
Worker DNEL,	long-term	inhalation	local	8 mg/m³

# 8.2. Exposure controls



according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxx

Page 4 of 10

#### Appropriate engineering controls Provide adequate ventilation.

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Wear eye/face protection. Wear safety glasses; chemical goggles (if splashing is possible). EN 166

### 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. In case of prolonged or frequently repeated skin contact: Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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 Use of protective clothing. Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

# Environmental exposure controls

No special precautionary measures are necessary.

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

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

Physical state: Colour: Odour: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower explosion limits: Upper explosion limits: Flash point: Auto-ignition temperature: Decomposition temperature: pH-Value (at 20 °C):	liquid colourless, clear pungent , stinging	not determined not determined not determined not determined > 100 °C not determined not determined
pH-Value (at 20 °C):		2-3



# according to UK REACH Regulation

Creatinine Standard 200 mg/l			
Revision date: 20.12.2023	Product code: 18345.xxxxx	Page 5 of 10	
Viscosity / kinematic:	not determined		
Water solubility:	not determined		
Solubility in other solvents			
not determined			
Partition coefficient n-octanol/water:	not determined		
Vapour pressure:	not determined		
Density:	not determined		
Relative vapour density:	not determined		
Particle characteristics:	not applicable		
9.2. Other information			
Information with regard to physical haza Explosive properties The product is not: Explosive. Sustaining combustion: Self-ignition temperature Gas: Oxidizing properties none	rd classes Not sustaining combustion not determined		
Other safety characteristics			
Evaporation rate:	not determined		
Solvent separation test:	not determined		
Solvent content:	not determined		
Solid content:	not determined		
Sublimation point:	not determined		
Softening point:	not determined		
Pour point:	not determined		
Viscosity / dynamic:	not determined		
Flow time:	not determined		

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

# 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

# 10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

# 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

# 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO2).

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

# Acute toxicity

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



# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxxx

according to UK REACH Regulation

Page 6 of 10

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

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

#### 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.

# 11.2. Information on other hazards

#### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

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

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

The product has not been tested.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

# **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.



according to UK REACH Regulation

		Creatinine Standard 200 mg/l		
Revision date: 20	.12.2023	Product code: 18345.xxxxx	Page 7 of 10	
Control re	port for waste code/ waste n	narking according to (EWC) European Waste Catalogue:		
160509	List of Wastes Code - residues/unused products 160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08			
List of Waste 160509		SE SPECIFIED IN THE LIST; gases in pressure containers and arded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16		
150106	PROTECTIVE CLOTHING collected municipal package	<b>kaging</b> ISORBENTS, WIPING CLOTHS, FILTER MATERIALS AND IS NOT OTHERWISE SPECIFIED; packaging (including separately ging waste); mixed packaging		
Contaminated Non-conta substance	minated packages may be r	ecycled. Handle contaminated packages in the same way as the		
SECTION 14: T	ransport information			
Land transport (A				
	ber or ID number:	No dangerous good in sense of this transport regulation.		
	er shipping name:	No dangerous good in sense of this transport regulation.		
	rt hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing		No dangerous good in sense of this transport regulation.		
Inland waterway	s transport (ADN)			
-	ber or ID number:	No dangerous good in sense of this transport regulation.		
	er shipping name:	No dangerous good in sense of this transport regulation.		
	rt hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing		No dangerous good in sense of this transport regulation.		
Marine transport				
-	iber or ID number:	No dangerous good in sense of this transport regulation.		
	per shipping name:	No dangerous good in sense of this transport regulation.		
	ort hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing		No dangerous good in sense of this transport regulation.		
Air transport (IC	AO-TI/IATA-DGR)			
	ber or ID number:	No dangerous good in sense of this transport regulation.		
	er shipping name:	No dangerous good in sense of this transport regulation.		
	rt hazard class(es):	No dangerous good in sense of this transport regulation.		
14.4. Packing	group:	No dangerous good in sense of this transport regulation.		
14.5. Environme	ntal hazards			
ENVIRONME	NTALLY HAZARDOUS:	No		
<u>14.6. Special pre</u> Refer to se	cautions for user ection 6-8			
<u>14.7. Maritime tra</u> not releva	<b>ansport in bulk according t</b> nt	o IMO instruments		
SECTION 15: R	egulatory information			

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

# EU regulatory information



according to UK REACH Regulation

	Creatinine Standard 200 mg/l			
Revision date: 20.12.2023	Product code: 18345.xxxxx	Page 8 of 10		
Restrictions on use (REACH, annex XV Entry 75	II):			
Directive 2010/75/EU on industrial emissions:	No information available.			
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.			
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)			
Additional information				
The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].				
National regulatory information				
Water hazard class (D):	1 - slightly hazardous to water			
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): 1,2,3,4,5,6,7,8,9,11,12,13,14,15,16. Rev. 2,0; 20.12.2023, Individual safety data sheet based on 18339\_collect



according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxxx

Page 9 of 10

### Abbreviations and acronyms Met. Corr: Corrosive to metals Skin Corr: Skin corrosion Eye Dam: Eye damage STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen AGW: Arbeitsplatzgrenzwert AVV: Abfallverzeichnisverordnung CAS Chemical Abstracts Service CLP: Classification, Labelling and Packaging of substances and mixtures DNEL: Derived No Effect Level d: dav(s) EAKV: Europäisches Abfallverzeichnis gemäß Entwurf Abfallverzeichnisverordnung EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European LIst of Notified Chemical Substances ECHA: European Chemicals Agency EWC: European Waste Catalogue IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER 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 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) h: hour LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NLP: No-Longer Polymers N/A: not applicable OECD: Organisation for Economic Co-operation and Development PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS Technische Regeln fuer Gefahrstoffe UN: United Nations VOC: Volatile Organic Compounds VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe WGK: Wassergefaehrdungsklasse CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate

according to UK REACH Regulation

# Creatinine Standard 200 mg/l

Revision date: 20.12.2023

Product code: 18345.xxxxx

Page 10 of 10

LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). **Further Information** The information is based on the present level of our knowledge. It does not, however, give assurance of

product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Classification according to Regulation (EC) No 1272/2008 [CLP] -Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)