

# MATERIAL SAFETY DATA SHEET

Revision: 16.12.2021

Version: 02

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

### **1.1. Product identifier**

CREATININE STANDARD 2 (Cat. No 5-123)

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

Laboratory reagents. For professional use only.

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

**Manufacturer:**

PZ CORMAY S.A.  
22 Wiosenna Street  
05-092 ŁOMIANKI  
phone: +48 22 751 79 10  
fax +48 22 751 79 11

e-mail: msds@cormay.pl

### **1.4. Emergency telephone number**

The local/in-country emergency telephone number.

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

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

Classification according to Regulation (EC) No 1272/2008 (CLP):

Skin Corr. 1, H314  
Eye Dam. 1, H318



Skin Irrit. 2; H315: 10 % ≤ C < 25 %  
Eye Irrit. 2; H319: 10 % ≤ C < 25 %  
STOT SE 3; H335: C ≥ 10 %

The full text of H phrases is given in section 16

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

### **4.1. Description of first aid measures**

**General information** Consult a physician. Show this safety data sheet to the doctor in attendance.  
**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If symptoms occur consult a physician.  
**In case of skin contact** Wash off with soap and plenty of water.  
**In case of eye contact** Wash thoroughly eyes with plenty of water for at least 15 minutes. If irritation remains, seek medical help.  
**If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms occur consult a physician.

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

No data available.

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

No data available.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

In the case of fire use extinguishing media suitable for materials stored in immediate vicinity. Water, CO<sub>2</sub>, dry powder can be used as the extinguish media.  
Not recommended extinguishing media: no data available.

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

There is no data about hazardous substances which may occur during fire thermal decomposition of the mixture.

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

The rescuers must be equipped with protective clothing and respiratory tract isolating equipment, irrespective of ambient air (in the case of large fire).

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

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

#### *6.1.1. For non-emergency personnel*

Avoid contamination with the preparation.

Notify the effected individuals of the emergency, to be aware of the issues associated.

Do not inhale vapours/ aerosols.

Secure the flow of fresh air into closed rooms.

Avoid contact of the mixture with skin and eyes.

Remove contaminated clothing and wash before reuse.

#### *6.1.2. For emergency responders*

Wear protective clothing and rubber gloves.

### **6.2. Environmental precautions**

Dilute with plenty of water.

Avoid entering the product into drains, surface water and groundwater, reservoirs and waterways.

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

Collect small quantities with the use of an absorbing agent (sand, diatomite, acid binders, universal binders, sawdust), rinse with large amount of water if necessary.

Provide material collected for recycling.

### **6.4. Reference to other sections**

Use the control measures and personal protective equipment described in section 8 of this MSDS. Refer to section 13 of this MSDS for adequate release measures.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

While working with the preparation, one should use appropriate means of personal protection (see pt. 8).

Avoid contact of the preparation with skin and eyes, as well as inhaling its mists.

Secure efficient local ventilation.

#### **Industrial hygiene:**

Eating, drinking or smoking of tobacco is prohibited while working with the preparation, except for places specially designated for this purpose.

Wash your hands after work with the substance carefully with soapy water. Apply skin-protective barrier cream.

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

In accordance with the norms generally accepted for chemicals in laboratories.  
 Store in original manufacturer containers.  
 Store in closed containers at temperatures compatible with the information provided on the label.  
 Protect from direct sunlight and avoid contamination!  
 Protect containers from damage.  
 Do not store with food or animal feed.

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

No data available.

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

**8.1. Control parameters**

Contains substances with occupational exposure limit values at workplace.

Data for hydrochloric acid:

TWA		STEL	
mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm
8	5	15	10

**TWA** - Time-weighted average (exposure limit 8 h).

**STEL** - Short time exposure limit.

**8.2. Exposure controls**

*8.2.1. Appropriate engineering controls*

No data available.

*8.2.2. Individual protection measures, such as personal protective equipment*

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**a) Eye / Face protection:**

Avoid direct contact of the product with eyes, use glasses as a protection.

**b) Skin/Hand protection:**

Avoid direct contact of the product with skin, immediately take off clothes soiled with the preparation and wash contaminated skin with soapy water, use personal protective, clothing and gloves:

**c) Respiratory protection:**

Apply in rooms with efficiently working ventilation, avoid inhaling product mists, respiratory tract-protective agents are not required.

**d) Thermal hazards:**

Not applicable.

*8.2.3. Environmental exposure controls*

No data available.

## SECTION 9: Physical and chemical properties

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

a) Physical state:	<i>clear to slightly turbid liquid</i>
b) Colour:	<i>colourless to pale yellow</i>
c) Odour:	<i>odourless</i>
d) Melting point/freezing point :	<i>no data available</i>
e) Boiling point or initial boiling point and boiling range:	<i>~100°C</i>
f) Flammability:	<i>no data available</i>
g) Lower and upper explosion limit:	<i>no data available</i>
h) Flash point:	<i>no data available</i>
i) Auto-ignition temperature:	<i>no data available</i>
j) Decomposition temperature	<i>no data available</i>
k) pH:	<i>≤2.00</i>
l) Kinematic viscosity :	<i>no data available</i>
m) Solubility :	<i>miscible with water</i>
n) Partition coefficient n-octanol/water (log value):	<i>no data available</i>
o) Vapour pressure:	<i>no data available</i>
p) Density and/or relative density:	<i>1.000 g/cm<sup>3</sup> (20°C)</i>
q) Relative vapour density:	<i>no data available</i>
r) Particle characteristics:	<i>not applicable</i>

### 9.2. Other information

No other relevant information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable in conditions provided by the manufacturer.

### 10.2. Chemical stability

The product is stable when normal handling in accordance with conditions provided by the manufacturer.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

The product is stable in conditions provided by the manufacturer. Avoid heat. Protect from direct sunlight and avoid contamination!

#### 10.5. Incompatible materials

Not known.

#### 10.6. Hazardous decomposition products

Not known. In the event of fire: see section 5.

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

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

**No data for the mixture. Toxicological problems should not be expected if the product were used and applied appropriately. The product should be handled with the care usual when dealing with chemicals.**

**a) acute toxicity:**

No data available.

**b) skin corrosion/irritation:**

No data available.

**c) serious eye damage/irritation:**

No data available.

**d) respiratory or skin sensitisation:**

No data available.

**e) germ cell mutagenicity:**

No data available.

**f) carcinogenicity:**

No data available.

**g) reproductive toxicity:**

No data available.

**h) STOT-single exposure:**

No data available.

**i) STOT-repeated exposure:**

No data available

**j) aspiration hazard:**

No data available

#### 11.2 Information on other hazards

No data available

### ***SECTION 12: Ecological information***

#### 12.1. Toxicity

**Quantitative data on the ecological effect of this mixture are not available**

**Ecotoxicity:**

No data available.

Ecological problems should not be expected if you use and apply the product appropriately.

**Further ecological data:**

Do not allow for penetration into waters, sewage or soil.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

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

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Product:**

Chemical residues, in general, are included into special waste. Disposing of the latter is regulated by appropriate laws and ordinances. We recommend contacting the appropriate authorities, or waste disposal enterprises that will advise you on how to dispose of special waste.

**Packing:**

Remove in accordance with official regulations. Treat contaminated packages in the same way as the substance itself. If the regulations do not provide otherwise, non-contaminated packages can be treated like household waste or forward them to be utilized.



Reagent	Waste classification	UE waste code reagent	UE waste code direct packaging
CREATININE STANDARD	hazardous	18 01 06*	15 01 10*

List of Waste referred to in Article 7 of Directive 2008/98/EC:  
15 01 10\* packaging containing residues of or contaminated by hazardous substances.  
18 01 06\* chemicals consisting of or containing hazardous substances.

## **SECTION 14: Transport information**

### **14.1. UN number or ID number**

Not applicable.

### **14.2. UN proper shipping name**

Not applicable.

### **14.3. Transport hazard class(es)**

Not applicable.

### **14.4. Packing group**

No limits.

### **14.5. Environmental hazards**

Not applicable.

### **14.6. Special precautions for user**

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**

**Material Safety Data Sheet was prepared in accordance with:**

Regulation (EC) No 1907/2006 of European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH);

Regulation (EC) No 1272/2008 of the European Parliament and Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste and repealing certain Directives Text with EEA relevance.

Council Regulation (EU) 2017/997 of 8 June 2017 amending Annex III to Directive 2008/98/EC of the European Parliament and of the Council as regards the hazardous property HP 14 Ecotoxic.

Commission Decision of 18 December 2014 amending Decision 2000/532/EC on the list of waste pursuant to Directive 2008/98/EC of the European Parliament and of the Council.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### **15.2. Chemical safety assessment**

Chemical safety assessment has been no carried out for the product.

## **SECTION 16: Other information**

**Full text of abbreviations and acronyms:**

PBT – persistent, bioaccumulative and toxic substances

vPvB – very persistent and very bioaccumulative substances

Eye Irrit. 2 – Eye irritation (category 2)

Skin Irrit. 2 – Skin irritation (category 2)

Skin Corr. 1 – Skin corrosion (category 1)

Skin Corr. 1B – Skin corrosion (category 1B)

Eye Dam. 1 – Serious eye damage (category 1)

Met. Corr. 1 – Corrosive to metals (category 1)

STOT SE 3 – Specific target organ toxicity — single exposure (category 3)

**Text of H-code(s):**

H290 – May be corrosive to metals.

H314 – Causes severe skin burns and eye damage.  
H315 – Causes skin irritation.  
H318 – Causes serious eye damage.  
H319 – Causes serious eye irritation.  
H335 – May cause respiratory irritation.

Methods of evaluating information for the purpose of classification: calculation method.

The foregoing information is based on the present state of our knowledge. It characterizes the product with respect to the appropriate safety measures. They do not guarantee the properties of the product.

We do not take responsibility for damage and losses that may result from inappropriate use of the mixture.

Reason of changes:

Safety data sheet in accordance with the Commission Regulation (EU) 2020/878 of June 18, 2020.

Document number and logo change.

Classification changes (section 2)

Adding information about substances (section 3.2).

Entering a sentence "Protect from direct sunlight and avoid contamination!" (section 7.2 and 10.4).

Adding information about occupational exposure limit values at workplace (section 8.1).

Updating information about physical and chemical properties (section 9.1).

Updating information about waste classification and the assigned waste codes (section 13.1).

Introducing information about Directive 2000/39/EC and Commission Regulation (EU) 2020/878 (section 15.1).