

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

### 1.1 Product identifier

**Trade name: Urine Cal 1-7**

**Chemical Identification** 2-imino-1-methylimidazolidin-4-one

**CAS Number:**

60-27-5

**EC number:**

200-466-7

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

#### Application of the substance / the mixture

Calibration standard.

For research use only. Not for use in diagnostic procedures.

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

**Manufacturer/Supplier:**

**biocrates life sciences ag**

Eduard-Bodem-Gasse 8

A-6020 Innsbruck

T: +43 512 57 98 23

F: +43 512 57 98 23 329

**Further information obtainable from:** Email: [office@biocrates.com](mailto:office@biocrates.com)

### 1.4 Emergency telephone number:

+43 512 57 98 23

Available during office hours:

Mo-Fr: 9 a.m. - 5 p.m.

**Call the national emergency number!**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

The substance is not classified, according to the CLP regulation.

### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008** void

**Hazard pictograms** void

**Signal word** void

**Hazard statements** void

### 2.3 Other hazards

**Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine-disrupting properties  $\geq 0.1$  % (w/w).

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

##### CAS No. Description

60-27-5 2-imino-1-methylimidazolidin-4-one

##### Identification number(s)

EC number: 200-466-7

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Rinse skin with water.

**After eye contact:** Rinse opened eye for several minutes under running water.

##### After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Combustible.

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

##### Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

##### Additional information

Precipitate gases/vapours with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

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

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Avoid breathing dust.

**6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

Pick up mechanically.

Dispose of the material collected according to regulations.

Avoid the formation of dust.

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

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Do not breathe dust.

Keep receptacles tightly sealed.

Use personal protective equipment as required.

**Information about fire - and explosion protection:** No special measures required.

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

#### **Storage:**

#### **Requirements to be met by storerooms and receptacles:**

Store in accordance with local/regional/national/international regulations.

Store in a dry, cool, well-ventilated area.

**Information about storage in one common storage facility:** Not required.

#### **Further information about storage conditions:**

Store in dry conditions.

Keep container tightly sealed.

**Storage class:** 11

**7.3 Specific end use(s)** No further relevant information available.

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

### **8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**DNELs** No data available.

**PNECs** No data available.

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**Regulatory information**

**Additional Occupational Exposure Limit Values for possible hazards during processing:**

The national dust limits must be observed in the event of dust generation.

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

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

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Do not eat, drink, smoke or sniff while working.

Avoid contact with the eyes and skin.

Avoid breathing dust.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Respiratory protection:** Wear respiratory protection during dust formation.

**Hand protection**

Protective gloves recommended.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**Material of gloves** Nitrile rubber, NBR

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face protection** Safety glasses

**Body protection:** Protective work clothing

**Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Solid
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No information available.
<b>Melting point/freezing point:</b>	305 °C (Zersetzung)
<b>Boiling point or initial boiling point and boiling range</b>	No information available.
<b>Flammability</b>	Product is not flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.
<b>Flash point:</b>	Not applicable.
<b>Decomposition temperature:</b>	No information available.

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<b>pH</b>	No information available.
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not applicable.
<b>Dynamic:</b>	Not applicable.
<b>Solubility</b>	
<b>water at 20 °C:</b>	90 g/l
<b>Partition coefficient n-octanol/water (log value)</b>	-1.76 log POW
<b>Vapour pressure:</b>	Not applicable.
<b>Density and/or relative density</b>	
<b>Density:</b>	No information available.
<b>Vapour density</b>	Not applicable.
<b>Particle characteristics</b>	
See section 3.	

**9.2 Other information**

**Appearance:**

**Form:** Solid

**Important information on protection of health and environment, and on safety.**

<b>Ignition temperature:</b>	No information available.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Solids content:</b>	100.0 %
<b>Change in condition</b>	
<b>Softening point/range</b>	
<b>Oxidising properties</b>	No information available.
<b>Evaporation rate</b>	No information available.

**Information with regard to physical hazard classes**

<b>Explosives</b>	void
<b>Flammable gases</b>	void
<b>Aerosols</b>	void
<b>Oxidising gases</b>	void
<b>Gases under pressure</b>	void
<b>Flammable liquids</b>	void
<b>Flammable solids</b>	void
<b>Self-reactive substances and mixtures</b>	void
<b>Pyrophoric liquids</b>	void
<b>Pyrophoric solids</b>	void
<b>Self-heating substances and mixtures</b>	void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	void
<b>Oxidising liquids</b>	void
<b>Oxidising solids</b>	void
<b>Organic peroxides</b>	void
<b>Corrosive to metals</b>	void

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**Desensitised explosives**

void

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions**

As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.

Caution: On contact with nitriles, nitrates, sapular acid release of nitrosamines possible!

**10.4 Conditions to avoid** temperature > 300 °C

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous 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.

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

**Reproductive toxicity** 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**

Substance is not listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** No data available.

**vPvB:** No data available.

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**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation**

Only dispose of product residues via authorised companies according to local legislation.

**European waste catalogue**

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

16 03 06	organic wastes other than those mentioned in 16 03 05
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**Uncleaned packaging:**

**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**SECTION 14: Transport information**

**14.1 UN number or ID number**

ADR/RID/ADN, ADN, IMDG, IATA

not regulated

**14.2 UN proper shipping name**

ADR/RID/ADN, ADN, IMDG, IATA

not regulated

**14.3 Transport hazard class(es)**

ADR/RID/ADN, ADN, IMDG, IATA

Class

not regulated

**14.4 Packing group**

ADR/RID/ADN, IMDG, IATA

not regulated

**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.

**UN "Model Regulation":**

not regulated

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## SECTION 15: Regulatory information

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

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** Substance is not listed.

#### **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

#### **REGULATION (EU) 2019/1148**

#### **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

#### **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

#### **Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

#### **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## \* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### **Department issuing SDS:**

UmEnA GmbH

<http://umena.at>

Email: [office@umena.at](mailto:office@umena.at)

**Date of previous version:** 28.08.2023

**Version number of previous version:** 1.5

#### **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

**\* Data compared to the previous version altered.**