

**SAFETY DATA SHEET**

Create Date: 2021-04-12

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**SECTION 1: COMPANY AND PRODUCT INFORMATION**

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**1.1 Product identifiers**

Product name : Adenosine, free base [9-Beta-D-Ribofuranosyladenine]  
Cat. Number : ZXB-09-188  
CAS number : 58-61-7  
Synonyms : Adenine riboside, Adenine-9-<sup>6</sup>; -D-ribofuranoside, 9-<sup>6</sup>; -D-Ribofuranosyladenine

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

Identified uses : Laboratory chemicals, manufacture of substances

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

Address : Hinter den Gärten 56  
89173 Lonsee  
Germany

Email : info@zellx.de  
Phone : +49(0)731 55211521  
Fax : +49(0)731 55211719

**1.4 Emergency telephone number**

Emergency phone : +49(0)731 55211521

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of substance or mixture**

Not a hazardous substance or mixture.

**2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Not a hazardous substance or mixture.

**2.3 Label elements and precautionary statements**

Pictogram : none  
Signal word : None  
Hazard statement(s) : none  
Precautionary statement(s) : Not available

**2.4 Hazards not otherwise classified (HNOC) or not covered by GHS**

Not available

**2.5 NFPA Rating**

Health hazard : 0  
Fire hazard : 0  
Reactivity hazard : 0

**2.6 HMIS Rating**

Health hazard : 0  
Chronic health hazard : 0  
Reactivity hazard : 0  
Flammability : 0  
Physical hazard : 0

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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#### 3.1 Substances

Substance	CAS#	EC#	Concentration
Adenosine M.F: C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub> M.W: 267.24 g/mol	58-61-7	200-389-9	95-100%

#### 3.2 Hazardous components & classification

Not available

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### SECTION 4: FIRST AID MEASURES

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#### 4.1 Description of first aid measures

##### In case of inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

##### In case of skin contact

Wash off with soap and plenty of water.

##### In case of eye contact

Flush eyes with water as a precaution.

##### In case of ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Not available

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

Not available

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### SECTION 5: FIREFIGHTING MEASURES

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#### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### 5.2 Unsuitable extinguishing media

Not available

#### 5.3 Special hazards arising from the substance

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

#### 5.4 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. Avoid breathing vapors, mist or gas.

**For personal protection see section 8**

### **6.2 Environmental precautions**

No special environmental precautions required.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**For proper disposal see section 13**

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## **SECTION 7: HANDLING AND STORAGE**

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

Handle in accordance with good industrial hygiene and safety practice.

**For precautions see section 2**

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

Storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials : Not available

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **8.1 Control parameters**

Contains no substances with occupational exposure limit values.

### **8.2 Engineering controls**

Showers, Eyewash stations, Ventilation systems

### **8.3 Personal protective equipment**

Eye/face protection : Tightly fitting safety goggles.

Skin protection : Wear protective gloves/clothing.

Body protection : Wear protective gloves/clothing.

Respiratory protection : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Control of environmental exposure : No special environmental precautions required.

General hygiene considerations : Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

a)	Appearance	: White
b)	Physical states	: Solid
c)	Odor	: Not available
d)	Odor threshold	: Not available
e)	Melting point	: 234 - 236 °C (453 - 457 °F) - lit.
f)	Boiling point range	: Not available
g)	pH	: Not available
h)	Density	: Not available
i)	Flash point	: Not available
j)	Evaporation rate	: Not available
k)	Flammability	: Not available
l)	Upper/lower flammability or explosive limits:	: Not available
m)	Vapor pressure	: Not available
n)	Vapor density	: Not available
o)	Relative density	: Not available
p)	Water solubility	: Not available
q)	Partition coefficient:n-octanol/water	: Not available
r)	Autoignition temperature	: Not available
s)	Decomposition temperature	: Not available
t)	Kinematic viscosity	: Not available
u)	Explosive properties	: Not available
v)	Oxidizing properties	: Not available
w)	Solubility in other solvents	: Not available
x)	Surface tension	: Not available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

Not available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Stability note(s)

Not available

### 10.4 Polymerization

Not available

### 10.5 Possibility of hazardous reactions

Not available

### 10.6 Incompatible materials

Not available

### 10.7 Hazardous decomposition products

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

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1 Acute toxicity

LD50 Oral : Not available

LD50 Dermal : Not available

LC50 Inhalation : Not available

### 11.2 Skin corrosion/irritation

Not available

### 11.3 Serious eye damage/eye irritation

Not available

### 11.4 Respiratory or skin sensitization

Not available

### 11.5 Germ cell mutagenicity

Not available

### 11.6 Carcinogenicity

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### 11.7 Reproductive toxicity

Not available

### 11.8 Specific target organ toxicity – single exposure

Not available

### 11.9 Specific target organ toxicity – repeated exposure

Not available

### 11.10 Aspiration hazard

Not available

### 11.11 Additional Information

Not available

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## SECTION 12: ECOLOGICAL INFORMATION

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### 12.1 Toxicity

Not available

### 12.2 Aquatic toxicity

Not available

### **12.3 Persistence and degradability**

Not available

### **12.4 Bioaccumulative potential**

Not available

### **12.5 Mobility in soil**

Not available

### **12.6 Results of PBT and vPvB assessment**

Not available

### **12.7 Other adverse effect**

Not available

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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### **13.1 Product**

Dispose of material in accordance with all federal, state, and local regulations.

### **13.2 Packaging**

Dispose of in accordance with all federal, state and local regulations.

### **13.3 Recommendation**

Not available

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## **SECTION 14: TRANSPORTATION INFORMATION**

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### **14.1 DOT (US)**

Not regulated

### **14.2 IMDG**

Not regulated

### **14.3 IATA**

Not regulated

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## **SECTION 15: REGULATORY INFORMATION**

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### **15.1 SARA**

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

### **15.2 Clean water act (CWA)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **15.3 Right to know components**

Massachusetts : No components are subject to the Massachusetts Right to Know Act.

Pennsylvania : Adenosine CAS-No-58-61-7

New Jersey : Adenosine CAS-No-58-61-7

California proposition : This product does not contain any Proposition 65 chemicals.  
65 components

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## **SECTION 16: OTHER INFORMATION**

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### **16.1 Disclaimer**

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### **16.2 Preparation Information**

Create Date: 2021-04-12