

**Adénine****SP-T-N-(ORG.)****Danger****SECTION 1. Identification of the substance/mixture and of the company/undertaking**

Ref. n° : 105 278  
Trade name : Adénine  
Company identification : JEULIN  
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Use : laboratory use

**SECTION 2 Hazards identification****Classification of the substance or mixture**

Hazard Class and Category Code  
Regulation EC 1272/2008 (CLP)

• Health hazards : Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3)  
Classification EC 67/548 or EC 1999/45 : Xn; R22

**Label elements**

Labelling Regulation EC 1272/2008 (CLP) :

• Hazard pictograms



• Signal words : Danger  
• Hazard statements : H301 : Toxic if swallowed.

**Precautionary statements**

- General : P102 : Keep out of reach of children.
- Prevention : P280 : Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P301+P330+P310+P321 : IF SWALLOWED : Rinse mouth. Immediately call a POISON CENTER or doctor. Specific treatment.
- Storage : P405 : Store locked up.

Labelling EC 67/548 or EC 1999/45

Symbol(s)



R Phrase(s) : Harmful.  
: R22 : Harmful if swallowed.  
S Phrase(s) : S2 : Keep out of the reach of children.  
: S46 : If swallowed seek medical advice immediately and show this container or label.



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## SECTION 3 Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

### Substance / Preparation

Substance name	Value(s)	CAS nr	EC	EC index	REACH	CERTIFICATE
Adénine	100 ca %	73-24-5	200-796-1	-----	----	Xn; R22 Acute Tox. 3 (H301)

Other information

## SECTION 4. First aid measures

- Inhalation : If breathing is difficult, give oxygen.  
If you feel unwell, seek medical advice.  
Assure fresh air breathing.  
If not breathing, give artificial respiration.
- Skin contact : Wash skin thoroughly with mild soap and water.  
Remove contaminated clothing and shoes.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.  
Contact ophthalmologist immediately.
- Ingestion : **If swallowed, rinse mouth with water (only if the person is conscious).**  
: **Seek medical attention immediately.**

## SECTION 5. Fire-fighting measures

### Extinguishing media

- Suitable : Use extinguishing media appropriate for surrounding fire.  
Water.  
Carbon dioxide.  
Powder.  
Foam.

### Special exposure hazards

- : Under fire conditions, hazardous fumes will be present.  
Combustible.  
Thermal decomposition generates :  
Nitrogen oxides.  
Carbon monoxide.

### Protection against fire

### Special procedures

- : Do not enter fire area without proper protective equipment, including respiratory protection.
- : Knock down vapour cloud with water spray or other appropriate solution.  
Avoid (reject) fire-fighting water to enter environment.

## SECTION 6. Accidental release measures

### Environmental precautions

### After spillage and/or leakage

- : Prevent entry to sewers and public waters.
- : Sweep up dry powder and dispose properly.  
Flush/dilute residue with water.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

## SECTION 7. Handling and storage

### General

### Precautions in handling and storage

### Handling

### Storage

- : Restrict access to authorized personnel.
- : Local exhaust and general ventilation must be adequate to meet exposure standards.
- : Wear suitable protective clothing.  
Avoid raising powdered materials into airborne dust.  
Avoid all unnecessary exposure.  
Do not breathe dust.
- : Close container tightly after use.  
Store in dry, cool, well-ventilated area.  
Keep away from heat. (+15°C / +25°C)

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### SECTION 7. Handling and storage (continued)

### SECTION 8. Exposure controls/personal protection

<b>Personal protection</b>	: Avoid all unnecessary exposure.
- Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, approved respiratory protection equipment is recommended.
- Hand protection	: Wear suitable gloves resistant to chemical penetration.
- Skin protection	: Wear suitable protective clothing.
- Eye protection	: Chemical goggles or safety glasses.
- Others	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good housekeeping practices to avoid rendering dust airborne. Local exhaust is recommended where dust may occur.

### SECTION 9. Physical and chemical properties

<b>Chemical name</b>	: Adénine - Vitamine B4 - 6-Aminopurine
<b>Physical state</b>	: Powder.
<b>Colour</b>	: Slightly yellow.
<b>Odour</b>	: No data available.
<b>pH value</b>	: No data available.
<b>Molecular weight</b>	: 135.13
<b>Melting point [°C]</b>	: > 360°C
<b>Initial boiling point [°C]</b>	: No data available.
<b>Density</b>	: No data available.
<b>Flash point [°C]</b>	: No data available.
<b>Auto-ignition temperature [°C]</b>	: No data available.
<b>Explosion limits</b>	
Explosion limits - lower [%]	: No data available.
Explosion limits - upper [%]	: No data available.
Log P octanol / water at 20°C	: No data available.

### SECTION 10. Stability and reactivity

<b>Conditions to avoid</b>	: Heat.
<b>Materials to avoid</b>	: Strong oxidizers. Strong acids.
<b>Hazardous decomposition products</b>	: Nitrogen oxides. Carbon monoxide.

### SECTION 11. Toxicological information

<b>Acute toxicity</b>	
- Inhalation	: May be harmful if inhaled. May be irritating to respiratory system.
- Dermal	: May be harmful if absorbed through the skin. May produce skin irritation.
- Ocular	: May be irritating to eyes.
- Ingestion	: Toxic if swallowed.
<b>Rat oral LD50</b>	: 227 mg/kg convulsions, epilepsy. muscle weakness of the lungs and chest

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## SECTION 11. Toxicological information (continued)

- Dermal irritation (rabbit) : No data available.  
Eyes irritation (rabbit) : No data available.  
Mucous membrane irritation (rabbit) : No data available.  
Chronic toxicity  
- Other : There are potential chronic health effects to consider.  
Other toxicological information : To our knowledge, the toxicological properties have not been extensively researched. Other toxic properties can not be excluded. Observe all precautions for handling chemicals.

## SECTION 12. Ecological information

- Ecological effects information : Avoid release to the environment.  
Persistence and degradability : No data available.  
Bioaccumulative potential : No data available.  
Information on elimination : Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Biodegradation [%] : No data available.

## SECTION 13. Disposal considerations

- Disposal : Dispose of this material and its container at hazardous or special waste collection point. Containers, or internal liners coming from a container, having contained this product are also considered as hazardous wastes. Do not re-use empty container. Dispose in a safe manner in accordance with local/national regulations.  
**Do not empty into drains.**  
Waste-disposal procedures : Refer to the MSDS before handling or disposing.

## SECTION 14. Transport information

- Proper shipping name : UN 2811 SOLIDE ORGANIQUE TOXIQUE, N.S.A., 6.1, III  
- UN No. : 2811  
- H.I. nr : 60  
Land transport  
- ADR/RID : Class : 6.1  
Group : III  
Sea transport  
- IMO-IMDG code : UN 2811 Solide organique toxique, n.s.a. (adénine).  
- Class : 6.1  
- Packing group : III  
Air transport  
- ICAO/IATA : UN 2811 Toxic solid, organic, n.o.s. (adenine).  
- IATA - Class or division : 6.1  
IATA Packing group : III

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**Adénine****SP-T-N-(ORG.)****SECTION 15. Regulatory information**

Other : None.

**SECTION 16. Other information****Further information**

The contents and format of this MSDS are in accordance with Regulation (EC) N°1907/2006.

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## Règlement CE 1907/2006

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