

**Adenine Sulphate****DOC0(228-230)****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw Material  
Product code : DOC0(228-230)  
Trade name : Adenine sulphate  
EC-No : 206-286-5  
CAS number : 000321-30-2  
Formula : C<sub>5</sub>H<sub>5</sub>N<sub>5</sub> - 0.5H<sub>2</sub>SO<sub>4</sub>

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

1.2.1 Relevant identified uses : For research purposes only  
1.2.2 Uses advised against : No additional information available

**1.3. Details of the supplier of the safety data sheet****Company identification**

Formedium Ltd.  
King's Lynn, England, PE31 6DJ  
Tel: +44(0)1485 609069  
Web: www.formedium.com  
E-mail: info@formedium.com

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

Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)  
NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours)

**SECTION 2 Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) 1272/2008**

Acute toxicity. Oral (Category 4) H302

For the full text of the H-Statements mentioned in this section, see Section 16.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008**

Signal Word : Warning  
Hazardous ingredients : Adenine hemisulphate  
Hazard statement(s) : H302 Harmful if swallowed.  
Precautionary statement(s) : P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER / doctor if you feel unwell. Rinse mouth.



**Adenine Sulphate****DOC0(228-230)****SECTION 2 Hazards identification (continued)****2.3. Other hazards**

This substance / mixture contains no compounds considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3 Composition/information on ingredients****3.1 Substance / Preparation**

Synonyms : Adenine hemisulphate  
CAS-No. : 000321-30-2  
EC-No. : 206-286-5  
Molecular weight g/mol : 368.34  
Structural formula : C<sub>5</sub>H<sub>5</sub>N<sub>5</sub> – 0.5H<sub>2</sub>SO<sub>4</sub>

**Hazardous ingredients according to Regulation (EC) No. 1272/2008**

Component:	Concentration	CAS No.	EC No.	Classification
Adenine sulphate	>= 99%	321-30-2	206-286-5	Acute Tox 4 (Oral): H302

For the full text of the H-Statements mentioned in this Section, see section 16.

**SECTION 4 First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
<b>If inhaled</b>	Seek medical advice / attention if you feel unwell. Remove victim to fresh air.
<b>In case of skin contact</b>	Seek medical attention if ill effect or irritation develops. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
<b>In case of eye contact</b>	Seek medical attention if ill effect or irritation develops. Rinse immediately with water as a precaution.
<b>If swallowed</b>	Rinse mouth out with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available.

**SECTION 5 Fire-fighting measures****5.1. Extinguishing media**

**Suitable extinguishing media** Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.

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

Under fire conditions, hazardous fumes will be present. Cox Nox SOx

**5.3. Advice for firefighters**

Wear proper protective equipment, self-contained breathing apparatus for firefighters if necessary.



**Adenine Sulphate****DOC0(228-230)****Section 8: Exposure controls / personal protection (continued)****Eye protection**

Safety glasses.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

For nuisance exposures use appropriate type P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains

**SECTION 9 Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Solid
Appearance	White crystalline powder
Molecular mass	368.3 g/mol
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting point	~ 284 – 286 °C
Freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Relative evaporation rate	No data available
Flammability (solid,gas)	No data available
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Water solubility	No data available
Log pow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Explosive limits	No data available

**9.2. Other safety information**

No data available

## Adenine Sulphate

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**SECTION 10 Stability and reactivity****10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Stable

**10.4. Conditions to avoid**

No data available.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**Hazardous decomposition products formed under fire conditions – Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides (SO<sub>x</sub>).

Other decomposition products – No data available.

In the event of fire: see section 5

**SECTION 11 Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

: LD50 Oral – Mouse – 750 mg/kg

**Skin corrosion / irritation**

: Not classified

**Serious eye damage / eye irritation**

: Not classified

**Respiratory or skin sensitisation**

: Not classified

**Germ cell mutagenicity**

: Not classified

**Carcogenicity**

: 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.

**Specific target organ toxicity**: **Single exposure** – Not classified: **Repeated exposure** – Not classified**Aspiration hazard**

: Not classified

**Additional Information**

: RTECS: AU7140000

**11.2. Additional Information****Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Adenine Sulphate****DOC0(228-230)****SECTION 12 Ecological information****12.1. Toxicity**

No data available.

**12.2. Persistence - 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**

This substance / mixture contains no components considered to be either persistent bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher.

**12.6. Other adverse effects**

Avoid release to the environment. Prevent entry to sewers and public waters.

**12.7. Endocrine disrupting properties**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 13 Disposal considerations****13.1. Waste treatment methods**

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Avoid release to the environment.

**Contaminated packaging** Dispose of as unused product.

**SECTION 14 Transport information****14.1. UN Number**

Not applicable.

**General information**

: Not classified as dangerous in the meaning of transport regulations.

**14.2. UN Proper shipping name**

Not applicable.

**14.3. Transport Hazard Class(es)**

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable

**Adenine Sulphate****DOC0(228-230)****SECTION 15 Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet complies with the requirements of Regulation (EC) No. 2015/830.

**15.2. Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**SECTION 16 Other information****Full text of H- and EUH-statements referred to under sections 2 and 3.**

Acute Tox. 4 (Oral)  
H302

Acute toxicity (oral) Category 4  
Harmful if swallowed

**Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

**Revision**

: Complete SDS revision

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**End of document**