

	SAFETY DATA SHEET	Page : 1
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
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 : C₅H₅N₅ - 0.5H₂SO₄

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.
 Unit 1B Hunstanton Commercial Park
 Norfolk PE365JQ
 Tel: +44(0)1485 609069
 Fax: +44(0)1485 600510
 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)
 National Poison Information Centre : Europe UK : +44 0845 4647
 (this service is only available to health professionals)
 See www.toxbase.org for a local poison centre

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.



	<h1>SAFETY DATA SHEET</h1>	Page : 2
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Adenine Sulphate</h2>		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 : C₅H₅N₅ – 0.5H₂SO₄

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

- General advice** Consult a physician. Show this safety data sheet to the doctor in attendance.
- If inhaled** Seek medical advice / attention if you feel unwell. Remove victim to fresh air.
- In case of skin contact** 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.
- In case of eye contact** Seek medical attention if ill effect or irritation develops. Rinse immediately with water as a precaution.
- If swallowed** 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. CO₂ NO_x SO_x

5.3. Advice for firefighters

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

	<h1>SAFETY DATA SHEET</h1>	Page : 3
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Adenine Sulphate</h2>		DOC0(228-230)

SECTION 6 Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

- | | |
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| 6.1.1
Protective equipment.

Measures in case of dust release. | For non-emergency personnel
Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

Use good housekeeping practices to avoid rendering dust airborne. |
| 6.1.2 | For emergency responders
No additional information available. |

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Dispose in a safe manner in accordance with local/national regulations.
Sweep up dry powder and dispose properly.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7 Handling and storage
7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature.

7.3. Specific end use(s)

For research purposes only

SECTION 8 Exposure controls/personal protection
8.1. Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2. Exposure controls
Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment
Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

	SAFETY DATA SHEET	Page : 4
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
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 GEN (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

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	<h1>SAFETY DATA SHEET</h1>	Page : 5
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Adenine Sulphate</h2>		<h3>DOC0(228-230)</h3>

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 (NOx), Sulphur oxides (SOx).
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

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.

	<h1>SAFETY DATA SHEET</h1>	Page : 6
		Revised edition no : 0
		Date : 03 / 10 / 2017
		Supersedes : 31 / 7 / 2014
<h2>Adenine Sulphate</h2>		DOC0(228-230)

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

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)	Acute toxicity (oral) Category 4
H302	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

End of document