

1: Identification of substance / mixture

1. Product Identifier

Substance

Product Name **Adenine**
Product Code A11500
CAS Number 73-24-5
Other Names 6-Aminopurine
Vitamin B4
IUPAC
MFCN Number
EC/EINECS 200-796-1
REACH Number

Index-No

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

3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd
Bildeston Road,Chelsworth
Ipswich
Suffolk
IP77LE
UK

Telephone: 01449 741178
Fax: 01449 741217
Email: support@melford.co.uk



4. Emergency telephone number

+44(0)1449 741178 -

2. Hazards Identification

1. Classification of the substance or mixture

H301 Acute Tox. 3

2. Label elements

Signal Word **Danger**



Hazard Statements

H301 Toxic if swallowed.

Precautionary Phrases

P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330 Rinse mouth.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant

3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

3. Composition / Information on Ingredients

1. Substances

Product Name	Hazards	Concentration
Adenine		
CAS Number: 73-24-5 EC/EINECS: 200-796-1	H301 Acute Tox. 3	<=100%

4. First Aid Measures

1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water. Consult a doctor.
<i>Eye Contact</i>	Bathe the eye with running water for 15 minutes. Consult a doctor.
<i>Ingestion</i>	P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330: Rinse mouth. Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	If unconscious, check for breathing and apply artificial respiration if necessary. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

2. Most important symptoms and effects

See section 11 for known symptoms

3. Indication of any immediate medical attention

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. Firefighting measures

1. Extinguishing Media

Suitable Water spray.
Carbon dioxide.
Dry chemical powder.

Unsuitable No data available

2. Special Hazards arising from the substance or mixture

Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

3. Advice for Fire Fighters

Wear self-contained breathing apparatus.
Wear protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

2. Environmental Precautions

Do not discharge into drains or rivers.

3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

7. Handling and Storage

1. Personal Precautions

Safe Handling Ensure there is exhaust ventilation where dusts may form.
 P264: Wash hands thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

Protection against explosions and fires Normal measures for preventive fire protection.

2. Conditions for safe storage, including any incompatibilities

Managing Storage Risks Store in cool, well ventilated area.

Storage Controls Keep container tightly closed.

Maintaining Integrity No special requirements

Other advice P405: Store locked up.
 no further information available

3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

8. Exposure Controls/Personal Protection

1. Control Parameters

No Data Available

2. Exposure Controls

General protective and hygiene measures The standard precautionary measures should be adhered to when handling

Engineering measures Ensure there is sufficient ventilation of the area.
 Provide appropriate exhaust ventilation at places where dust is formed.

Eye / Face Protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand 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 EN 374 derived from it

Respiratory protection Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
 The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Other personal protection advice no data

9. Physical and Chemical Properties

1. Physical and Chemical Properties

Appearance	Powder
Odour	Odourless
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	> 350°C
Initial boiling point and boiling range	No Data Available

Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

2. Other Information

No additional information available

10. Stability and Reactivity

1. Reactivity

Stable under recommended storage conditions

2. Stability

Stable under recommended storage conditions

3. Possibility of Hazardous Reactions

No data available

4. Conditions to Avoid

Heat.
 Flames.
 Sources of Ignition.

5. Incompatible Materials

Carbon monoxide
 Cadmium

6. Hazardous Decomposition Products

Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

11. Toxicology information

1. Information

<i>Acute Toxicity</i>	LD50 Oral 783 mg/kg (Mouse)
	D50 Intravenous >30 mg/kg (Mouse)
	LD50 Intraperitoneal 277mg/kg (Rat) 16.5 mg/kg (Mouse)
<i>Skin corrosion/irritation</i>	no data
<i>Serious eye Damage/irritation</i>	no data
<i>Respiratory or skin sensitisation</i>	no data
<i>Germ Cell mutagenicity</i>	no data
<i>Carcinogenicity</i>	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.
<i>Reproductive toxicity</i>	

no data

STOT-single exposure no data

STOT-repeated exposure no data

Aspiration hazard no data

2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

12. Ecological Information

1. Toxicity

not known

2. Persistence and degradability

not known

3. Bio-Accumulative Potential

not known

4. Mobility and Soil

not known

5. Results of PBT & vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

6. Other adverse effects

not known

13. Disposal Considerations

1. Waste Treatment Methods

Disposal Operations Consult state, local or national regulations for proper disposal.

Disposal of Packaging Disposal must be made according to official regulations.

14. Transport Information

Air (ICAO)

Not classified as hazardous for transport

Road (ADR)

Not classified as hazardous for transport

Sea (IMDG)

Not classified as hazardous for transport

15. Safety, health, environmental and national regulations

1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

2. Safety Assessment

No Chemical Safety Assessment

16. Other Information

1. Other Information:

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.