

## 1: Identification of substance / mixture

### 1. Product Identifier

Substance

Product Name **ADP**  
Product Code A11220  
CAS Number 16178-48-6  
Other Names Adenosine 5'-diphosphate disodium salt  
IUPAC  
MFCD Number MFCD00066635  
EC/EINECS  
REACH Number Index-No

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

Laboratory Research and Development

### 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

Non Hazardous

### 2. Label elements

Non Hazardous

### Hazard Statements

Non Hazardous

### Precautionary Phrases

Non Hazardous

### 3. Other Hazards

Non Hazardous

## 3. Composition / Information on Ingredients

### 1. Substances

| Product Name           | Hazards | Concentration |
|------------------------|---------|---------------|
| ADP                    |         |               |
| CAS Number: 16178-48-6 |         | <=100%        |

## 4. First Aid Measures

### 1. Description of first aid measures

*Skin Contact* Wash with plenty of soap and water.  
Consult a doctor.

*Eye Contact* Bathe the eye with running water for 15 minutes.  
Consult a doctor.

*Ingestion*

*Inhalation* Wash out mouth with water.  
Never give anything by mouth to an unconscious person.  
Consult a doctor.  
Move to fresh air in case of accidental inhalation.  
If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

## 2. Most important symptoms and effects

The most important known symptoms and effects are described in section 11

## 3. Indication of any immediate medical attention

No data available

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Carbon dioxide.  
Alcohol or polymer foam.  
Dry chemical powder.

*Unsuitable* None

### 2. Special Hazards arising from the substance or mixture

In combustion emits toxic fumes:  
Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Sodium oxides

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

## 6. Accidental Release Measures

### 1. Personal Precautions

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

### 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* Provide appropriate exhaust ventilation.  
*Protection against explosions and fires* Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks* Store cold at – 20° C.  
Store under inert gas.  
Moisture sensitive.  
*Storage Controls* Keep container tightly closed.  
*Maintaining Integrity* No data available  
*Other advice* 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  
Wash hands during breaks and at the end of handling the material

*Engineering measures*

Provide appropriate exhaust ventilation

*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*

Where risk assessment indicates respiratory protection is required, 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                                   | Off-white powder  |
| Odour  | No Data Available |
| Odour threshold                              | No Data Available |
| PH   | No Data Available |
| Melting point / Freezing point               | No Data Available |
| 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

no data available

### 2. Stability

Stable under recommended storage conditions

### 3. Possibility of Hazardous Reactions

no data available

### 4. Conditions to Avoid

no data available

### 5. Incompatible Materials

Strong oxidizing agents.

### 6. Hazardous Decomposition Products

In combustion may emit toxic fumes.

## 11. Toxicology information

### 1. Information

|  |   |
|--|---|
| <i>Acute Toxicity</i>                    | no data   |
| <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>             | not known   |
| <i>STOT-single exposure</i>              | not known   |
| <i>STOT-repeated exposure</i>            | not known   |
| <i>Aspiration hazard</i>                 | not known   |

### 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

No information available

### 2. Persistence and degradability

No information available

### 3. Bio-Accumulative Potential

No information available

### 4. Mobility and Soil

No information available

## 5. Results of PBT & vPvB assessment

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

## 6. Other adverse effects

No information available

## 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.