

# Material Safety Data Sheet



ADENINE FOR BIOCHEMISTRY

VERSION : 02  
DATE OF ISSUE : 26-08-2019  
SUPERSEDES : 01

Product Code :21180

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## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Trade name : ADENINE FOR BIOCHEMISTRY

Product code : 21180

Identification of the product : Adenine

CAS No :73-24-5

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

Use : Industrial. For professional use only.

### **1.3. Details of the supplier of the safety data sheet**

Company identification : MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.

Email : [info@molychem.net](mailto:info@molychem.net)

Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co.,  
Kulgaon, Badlapur (E), Dist.-Thane-421 503.

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

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

## **2. Hazards identification**

### **2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), H301

Category 3

Classification according to Directive 67/548/EEC or 1999/45/EC

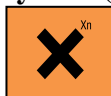
Adverse physicochemical, human health and environmental effects

No additional information available

### **2.2. Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Extra labelling to display  
Extra classification(s) to display

Symbol(s) : Xn: Harmful



R Phrase(s) : R22: Harmful if swallowed.

S Phrase(s) : S22: Do not breath dust

S24/25 : Avoid contact with skin and eyes.

**Hazard pictograms**

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**Signal word** : Danger

**Hazard statements** ( : H301 - Toxic if swallowed

**Precautionary statements** : P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

### **2.3. Other hazards**

No additional information available

## **3. Composition/information on ingredients**

### **3.1. Substance: ADENINE FOR BIOCHEMISTRY**

CAS No : 73-24-5

Substance.

Contains no other components or impurities which will influence the classification of the product.

## **4. First aid measures**

### **4.1. Description of first aid measures**

First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Symptoms/injuries after ingestion : Toxic if swallowed.

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

Treat symptomatically.

## **5. Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

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

No additional information available

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## **5.3. Advice for firefighters**

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

#### **6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

### **6.2. Environmental precautions**

Avoid release to the environment.

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

### **6.4. Reference to other sections**

No additional information available

## **7. Handling and storage**

### **7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### **7.2. Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

### **7.3. Specific end use(s)**

No additional information available

## **8. Exposure controls/personal protection**

### **8.1. Control parameters**

No additional information available

### **8.2. Exposure controls**

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Wear respiratory protection

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## **9. Physical and chemical properties**

**Odour threshold** : No data available

**pH** : 7

**Relative evaporation rate (butylacetate=1)** : No data available

**Melting point** : > 360 °C

**Freezing point** : No data available

**Boiling point** : No data available

**Flash point** : No data available

**Auto-ignition temperature** : No data available

**Decomposition temperature** : 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

**Solubility** : Water: Slightly soluble in water

**Log Pow** : No data available

**Viscosity, kinematic** : No data available

**Viscosity, dynamic** : No data available

**Explosive properties** : No data available

**Oxidising properties** : No data available

**Explosive limits** : No data available

### **9.2. Other information**

No additional information available

## **10. Stability and reactivity**

### **10.1. Reactivity**

No additional information available

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

No additional information available

### **10.4. Conditions to avoid**

Air contact. Moisture.

### **10.5. Incompatible materials**

No additional information available

### **10.6. Hazardous decomposition products**

No additional information available

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## **11. Toxicological information**

### **11.1. Information on toxicological effects**

Acute toxicity : Oral: Toxic if swallowed.

Skin corrosion/irritation : Not classified

pH: 7

Serious eye damage/irritation : Not classified

pH: 7

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Harmful if swallowed.

## **12. Ecological information**

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence and degradability**

No additional information available

### **12.3. Bioaccumulative potential**

No additional information available

### **12.4. Mobility in soil**

No additional information available

### **12.5. Results of PBT and vPvB assessment**

No additional information available

### **12.6. Other adverse effects**

No additional information available

## **13. Disposal considerations**

### **13.1. Waste treatment methods**

Product/Packaging disposal

Recommendations : Dispose of contents/container to ...

## **14. Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

### **14.1. UN number**

UN-No. (ADR) : 2811

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UN-No. (IMDG) : 2811

UN-No.(IATA) : 2811

UN-No.(ADN) : 2811

UN-No. (RID) : 2811

## **14.2. UN proper shipping name**

Proper Shipping Name (ADR) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (ADN) : TOXIC SOLID, ORGANIC, N.O.S.

Proper Shipping Name (RID) : TOXIC SOLID, ORGANIC, N.O.S.

Transport document description (ADR) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S.,  
6.1, III, (E)

Transport document description (IMDG) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S.,  
6.1, III

Transport document description (IATA) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S.,  
6.1, III

Transport document description (ADN) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S.,  
6.1, III

Transport document description (RID) : UN 2811 TOXIC SOLID, ORGANIC, N.O.S.,  
6.1, III

## **14.3. Transport hazard class(es)**

**ADR-** Transport hazard class(es) (ADR) : 6.1

Danger labels (ADR) : 6.1

**IMDG-** Transport hazard class(es) (IMDG) : 6.1

Danger labels (IMDG) : 6.1

**IATA-** Transport hazard class(es) (IATA) : 6.1

Hazard labels (IATA) : 6.1

**ADN-** Transport hazard class(es) (ADN) : 6.1

Danger labels (ADN) : 6.1

**RID-** Transport hazard class(es) (RID) : 6.1

Danger labels (RID) : 6.1

## **14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

## **14.5. Environmental hazards**

Dangerous for the environment : No

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Marine pollutant : No

Other information : No supplementary information available

## **14.6. Special precautions for user**

**Overland transport-** Classification code (ADR) : T2

Special provision (ADR) : 274, 614

Limited quantities (ADR) : 5kg

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : B3

Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1

Portable tank and bulk container special provisions (ADR) : TP33

Tank code (ADR) : SGAH, L4BH

Tank special provisions (ADR) : TU15, TE19

Vehicle for tank carriage : AT

Transport category (ADR) : 2

Special provisions for carriage – Bulk (ADR) : VC1, VC2, AP7

Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28

Special provisions for carriage – Operation (ADR) : S9

Hazard identification number (Kemler No.) : 60

Orange plates : Tunnel restriction code (ADR) : E

EAC code : 2X

**Transport by sea-** Special provision (IMDG) : 223, 274

Limited quantities (IMDG) : 5 kg

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : P002

IBC packing instructions (IMDG) : IBC08

IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1

Tank special provisions (IMDG) : TP33

EmS-No. (Fire) : F-A

EmS-No. (Spillage) : S-A

Stowage category (IMDG) : A

MFAG-No : 154

**Air transport-** PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y645

PCA limited quantity max net quantity (IATA) : 10kg

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PCA packing instructions (IATA) : 670

PCA max net quantity (IATA) : 100kg

CAO packing instructions (IATA) : 677

CAO max net quantity (IATA) : 200kg

Special provision (IATA) : A3, A5

ERG code (IATA) : 6L

**Inland waterway transport-** Classification code (ADN) : T2

Special provisions (ADN) : 274, 614, 802

Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EP

Number of blue cones/lights (ADN) : 0

**Rail transport-** Classification code (RID) : T2

Special provision (RID) : 274, 614

Limited quantities (RID) : 5kg

Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : B3

Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1

Portable tank and bulk container special provisions (RID) : TP33

Tank codes for RID tanks (RID) : SGAH, L4BH

Special provisions for RID tanks (RID) : TU15

Transport category (RID) : 2

Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7

Special provisions for carriage – Loading and unloading (RID) : CW13, CW28, CW31

Colis express (express parcels) (RID) : CE11

Hazard identification number (RID) : 60

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## **15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.1.1. EU-Regulations**

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No REACH Annex XVII restrictions  
Adenine 99% is not on the REACH Candidate List  
Adenine 99% is not on the REACH Annex XIV List

## **15.1.2. National regulations**

### **Germany**

12th Ordinance Implementing the Federal  
Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous  
Incident Ordinance)

### **Denmark**

Recommendations Danish Regulation : Young people below the age of 18 years are not  
allowed to use the product

## **15.2. Chemical safety assessment**

No additional information available

## **16. Other information**

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

**Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN  
PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification,  
labelling and packaging of substances and mixtures, amending and repealing Directives  
67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information** : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation  
(CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was  
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are beyond our control and may be beyond our knowledge. For this and other reasons, we  
do not assume responsibility and expressly disclaim liability for loss, damage or expense  
arising out of or in any way connected with the handling, storage, use or disposal of the  
product. This MSDS was prepared and is to be used only for this product. If the  
product is used as a component in another product, this MSDS information may not be  
applicable.

### **End of document**

**Prepared by: MOLYCHEM (INDIA)**


**For questions contact: MOLYCHEM**

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