

Material Safety Data Sheet

Adenine

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Adenine
Product number	SA17
Synonyms; trade names	6-aminopurine; Vitamin B4
CAS number	73-24-5
EC number	200-796-1

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

Identified uses Laboratory reagent. Manufacture of substances. Research and development.

1.3. Details of the supplier of the safety data sheet

Supplier SHANGHAI SHARING TECHNOLOGIES CO., LTD.
MSDS Creation Date : Mar. 16, 2018
sharing@sharingtechcn.com
+86-021-56152668

1.4. Emergency telephone number

Emergency telephone +86-021-56152668

SECTION 2: Hazards identification

Emergency Overview

Appearance: white or off white crystalline powder .Caution! The toxicological properties of this material have not been fully investigated. May cause respiratory and digestive tract irritation. May cause eye irritation.

Target Organs: No data found.

Potential Health Effects

Eye: Dust may cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: Inhalation of dust may cause respiratory tract irritation.

Chronic: No information found.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	Adenine
CAS number	73-24-5
EC number	200-796-1
Chemical formula	C ₅ H ₅ N ₅

SECTION 4: First aid measures

Description of first aid measures

General information	Get medical advice/attention if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if symptoms are severe or persist.
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if symptoms are severe or persist.
Skin contact	Remove contaminated clothing. Rinse with water. Continue to rinse for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention if symptoms are severe or persist.
Eye contact	Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe or persist.

SECTION 5: Firefighting measures

5.1.Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire- extinguishing media suitable for the surrounding fire.

5.2.Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

5.3.Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

General Information

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Vacuum or sweep up material and place into a suitable disposal container.

SECTION 7: Handling and storage

Handling:Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Wash clothing before reuse.

Storage:Keep container closed when not in use. Store in a dry, well-ventilated area away from incompatible substances.

SECTION 8: Exposure Controls/personal protectio

Engineering Controls:Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipments

Eyes:Wear chemical goggles.

Skin:Wear appropriate gloves to prevent skin exposure.

Clothing:Wear a chemical apron.

Respirators:Always use a NIOSH/MSHS or European Standard EN149 approved respirator when necessary.

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

Appearance and Odor:

A white or almost white crystalline powder.

Loss on drying: ≤1.0%

Purity: 99.0%min

9.2. Other information

Molecular Formula: C₅H₅N₅

Molecular weight 135.13

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

Reactivity No data available.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3.Possibility of hazardous reactions

Possibility of hazardous reactions No data available.

10.4.Conditions to avoid

Conditions to avoid Incompatible materials, dust generation, excess heat, strong oxidants.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information**11.1 Information on the likely routes of exposure**

No data is available on the product itself.

11.2 Information on toxicological effects

CAS# 73-24-5:

LD50/LC50:

Oral, mouse: LD50 = 783 mg/kg;

Oral, rat: LD50 = 227 mg/kg;

Carcinogenicity:

CAS# 73-24-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available.

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Based on available data the classification criteria are not met.

12.2. Persistence and degradability

The degradability of the product is not known.

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient No data available.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

Waste treatment methods

General information

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number Not applicable.

14.2. UN proper shipping name Not applicable.

14.3. Transport hazard class(es) No transport warning sign required.

14.4. Packing group Not applicable.

14.5. Environmental hazards Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

SECTION 15: Regulatory information

US FEDERAL

TSCA CAS# 73-24-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA None of the chemicals in this product are considered highly hazardous by OSHA.

STATE CAS# 73-24-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives**

Hazard Symbols: XN

Risk Phrases: R 22 Harmful if swallowed.

Safety Phrases:

WGK (Water Danger/Protection) CAS# 73-24-5

Canada - DSL/NDL CAS# 73-24-5 is listed on Canada's DSL List.

Canada - WHMIS WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

SECTION 16: Other 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.

Sharing Technologies shall not be held liable for any damage resulting from handling of or contact with the above product.

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