

3-Methyladenine (3-MA) SDS | MSDS

1.PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- **Product Name:** 3-Methyladenine (3-MA)
- **Catalog Number:** S2767
- **CAS Number:** 5142-23-4
- **IUPAC Name:** 3-methyl-3H-purin-6-amine

Relevant identified uses and uses advised against

- **Identified uses:** For research and development use only; laboratory chemicals; manufacture of substances.
- **Uses advised against:** Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- **Company :** Selleck Chemicals
- **TollFree :** +1 877 796-6397
- **Tel :** +1 832 582-8158
- **Fax :** +1 832 582-8590

Emergency telephone number

- **Emergency phone #:** +1 832 582-8158

2. HAZARDS IDENTIFICATION

GHS Classification:

Not a hazardous substance or mixture in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements:

The product is not classified as a hazardous substance or mixture.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Components: No hazardous ingredients are present according to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

If Inhaled: Move person to fresh air.

In Case of Skin Contact: Immediately remove all contaminated clothing. Rinse skin with water or shower.

In Case of Eye Contact: Rinse out with plenty of water. Remove contact lenses.

If Swallowed: Have the victim drink water (maximum of two glasses). Consult a physician if feeling unwell.

Most Important Symptoms and Effects, Both Acute and Delayed: The most important known symptoms and effects are described in the labeling (Section 2) and/or in Section 11.

Protection of First-Aiders: Refer to Section 8 for personal protection.

Notes to Physician: N/A

5. FIRE-FIGHTING MEASURES

Extinguishing Media: No limitations of extinguishing agents are given for this substance.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NO_x).

Specific Extinguishing Methods: N/A

Further Information: Use water spray jet to suppress gases, vapors, or mists. Prevent fire extinguishing water from contaminating surface water or groundwater systems.

Special Protective Equipment for Fire-Fighters: In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures:

- **For non-emergency personnel:** Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, and consult an expert.
- **For emergency responders:** Refer to Section 8 for personal protection.

Environmental Precautions: Do not allow the product to enter drains.

Methods and Materials for Containment and Cleaning Up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up dry and dispose of properly. Clean the affected area and avoid the generation of dusts.

7. HANDLING AND STORAGE

Precautions for Safe Handling: For precautions, see Section 2.2.

Conditions for Safe Storage: Keep the container tightly closed in a dry place.

Storage Class: 11 (Combustible Solids).

Recommended Storage Temperature: Refer to the product label for specific temperature requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Engineering Measures: N/A

Personal Protective Equipment:

- **Respiratory Protection:** Required when dusts are generated. Recommended filter type P1 (based on DIN EN 143, DIN 14387).
- **Hand Protection:** Handle with impervious nitrile rubber gloves. Full and splash contact: 0.11 mm thickness, 480 min breakthrough time (e.g., KCL 741 Dermatril L).
- **Eye Protection:** Use safety glasses tested and approved under government standards such as NIOSH (US) or EN 166 (EU).
- **Hygiene Measures:** Change contaminated clothing. Wash hands after working with the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: powder

Color: white

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point/Range: 572 °F / 300 °C

Boiling Point/Boiling Range: N/A

Flash Point: N/A

Evaporation Rate: N/A

Flammability (solid, gas): N/A

Flammability (liquids): N/A

Burning Rate: N/A

Upper/Lower Explosion Limit: N/A

Vapor Pressure: N/A

Relative Vapor Density: N/A

Relative Density: N/A

Density: N/A

Water Solubility: N/A

Partition Coefficient: n-octanol/water: N/A

Autoignition Temperature: N/A

Decomposition Temperature: N/A

Viscosity: N/A

Explosive Properties: N/A

Oxidizing Properties: N/A

Molecular Weight: 149.15 g/mol

Particle Size: N/A

10. STABILITY AND REACTIVITY

Reactivity: N/A

Chemical Stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of Hazardous Reactions: N/A

Conditions to Avoid: No information available.

Incompatible Materials: N/A

Hazardous Decomposition Products: In the event of fire, see Section 5.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A for oral, inhalation, or dermal routes.

Skin Corrosion/Irritation: N/A.

Serious Eye Damage/Eye Irritation: N/A.

Respiratory or Skin Sensitization: N/A.

Germ Cell Mutagenicity: N/A.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed human carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive Toxicity: N/A.

Specific Target Organ Toxicity - Single Exposure: N/A.

Specific Target Organ Toxicity - Repeated Exposure: N/A.

Aspiration Hazard: N/A.

Additional Information: RTECS: AU6520000. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A.

Persistence and Degradability: N/A.

Bioaccumulative Potential: N/A.

Mobility in Soil: N/A.

Other Adverse Effects: N/A.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. Do not mix with other waste. Handle uncleaned containers in the same manner as the product itself.

14. TRANSPORT INFORMATION

DOT (49 CFR): Not regulated as a dangerous good.

Poison Inhalation Hazard: No.

IATA-DGR: Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good.

Transport in Bulk: Not applicable for product as supplied.

Special Precautions for User: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity: This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: No SARA Hazards.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations:

- **Massachusetts Right To Know:** No components are subject to the Massachusetts Right to Know Act.
- **Pennsylvania Right To Know:** 3-methyl-3H-purin-6-amine 5142-23-4
- **New Jersey Right To Know:** 3-methyl-3H-purin-6-amine 5142-23-4
- **California Prop. 65:** This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Inventory Status:

- **TSCA:** Product contains substance(s) not listed on TSCA inventory.
- **TSCA List:** No substances are subject to a Significant New Use Rule. No substances are subject to TSCA 12(b) export notification requirements.

16. OTHER INFORMATION

Revision Date: 2026/07/24

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product. Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.