



Issuing Date 28-Aug-2009

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Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name** Adenine

**Product Code(s)** 0183

**Recommended Use** For Further Manufacturing Use Only  
Not for Human or Animal Drug Use

**Recommended Use** Used in cell culture and nucleic acid synthesis

**Synonyms** ADE \* ADENINIMINE \* 6-AMINOPURINE \* 6-AMINO-1H-PURINE \*  
6-AMINO-9H-PURINE \* 1,6-DIHYDRO-6-IMINOPURINE \* LEUCO-4 \*  
1H-PURIN-6-AMINE \* PURINE, 6-AMINO- \*9H-PURINE, 1,6-DIHYDRO-6-IMINO-  
\* USAF CB-18 \*VITAMIN B4 \*

**Company**  
AMRESKO, LLC  
6681 Cochran Road  
Solon, Ohio 44139

**Emergency Telephone Number** Chemtrec 1-800-424-9300

**Company Phone Number** 1-800-448-4442  
**E-mail Address** info@amresco-inc.com

2. HAZARDS IDENTIFICATION

**GHS - Classification**

**Classification** Acute Toxicity Oral 3

**Signal Word** Danger



**Hazard Statements** H301 - Toxic if swallowed

**Precautionary Statements** P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P310 - Immediately call a POISON CENTRE or doctor/physician

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Adenine (6-Aminopurine)	EEC No. 200-796-1	Not available	73-24-5	95-100	-

### 4. FIRST AID MEASURES

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
<b>Inhalation</b>	Move to fresh air. If breathing becomes difficult, give oxygen
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water
<b>Notes to Physician</b>	Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Not flammable
<b>Flash Point</b>	Not determined
<b>Suitable Extinguishing Media</b>	Dry chemical, CO2, water spray or regular foam
<b>Hazardous Combustion Products</b>	Carbon oxides, Nitrogen oxides (NOx).
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive
<b>Sensitivity to Static Discharge</b>	Not sensitive
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for Cleaning Up</b>	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

### 7. HANDLING AND STORAGE

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice.
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**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place

**Incompatible Products** Strong oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Adenine (6-Aminopurine) 73-24-5			

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Personal Protective Equipment**  
**Eye/Face Protection** Tightly fitting safety goggles.  
**Skin and Body Protection** Wear protective gloves/clothing  
**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** White to off-white  
**Odor** No information available  
**Odor Threshold** No information available  
**Decomposition Temperature °C** No information available  
**Freezing Point** No information available  
**Initial Boiling Point** No information available  
**Physical State** Powder  
**pH** No data available  
**Flash Point** Not determined  
**Autoignition Temperature** No data available  
**Boiling Point/Range** No data available  
**Melting Point/Range** 360 °C  
**Flammability Limits in Air** **Upper** No data available **Lower** No data available  
**Explosive Properties** No information available  
**Oxidizing Properties** No information available  
**Evaporation Rate** No data available  
**MMHG @ 37.8 C** No data available  
**Vapor Density** No data available  
**Specific Gravity** No data available  
**Solubility** No information available  
**Partition Coefficient (n-octanol/water)** No data available  
**Viscosity** No information available

**10. STABILITY AND REACTIVITY**

**Stability** Stable under recommended storage conditions

**Incompatible Products** Strong oxidizing agents.  
**Conditions to Avoid** None known based on information supplied  
**Hazardous Decomposition Products** Carbon oxides. Nitrogen oxides (NOx).  
**Hazardous Polymerization** Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information** Toxic.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Adenine (6-Aminopurine)	227 mg/kg ( Rat )		

### Chronic Toxicity

**Chronic Toxicity** No known effect based on information supplied

**Target Organ Effects** None known.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of material in accordance with all federal, state, and local regulations  
**Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations

**14. TRANSPORT INFORMATION**

**IATA** Not regulated

**DOT** Not regulated

**15. REGULATORY INFORMATION**

**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Adenine (6-Aminopurine)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Adenine (6-Aminopurine) 73-24-5 ( 95-100 )	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

**International Inventories**

**TSCA** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Does not Comply  
**AICS** Complies

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**  
**Acute Health Hazard**

Yes

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Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

**CERCLA**

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico - Grade** No information available.

**Canada**

**WHMIS Hazard Class**

D1B Toxic materials



**16. OTHER INFORMATION**

**Issuing Date** 28-Aug-2009

**Revision Date** 30-Mar-2011

**Revision Note**  
No information available.

**Recommended Restrictions** No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**