

## Material Safety Data Sheet

Date Printed: 15/NOV/2004  
Date Updated: 20/MAR/2004  
Version 1.1  
According to 91/155/EEC

Classified as Hazardous according to the criteria of EU Annex 1 and NOHSC.

---

#### 1 - Product and Company Information

---

Product Name	AMOBARBITAL SODIUM—DEA SCHEDULE II ITEM
Product Number	A4430
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia
Technical Phone #	+61 2 9841 0555
Fax	+61 2 9841 0500
Emergency Phone #	+61 2 9841 0566

---

#### 2 - Composition/Information on Ingredients

---

Product Name	CAS #	EC no	Annex I Index Number
AMOBARBITAL SODIUM	64-43-7	200-584-9	None
Formula	C <sub>11</sub> H <sub>17</sub> N <sub>2</sub> NaO <sub>3</sub>		
Molecular Weight	248.3 AMU		
Synonyms	Alitinal * Amobarbital sodium * Amsebarb * Amylobarbitone, sodium deriv * Amytal sodium * Barbamyl * Barbituric acid, 5-ethyl-5-isopentyl-, sodium deriv. * Dorminal * Drinamyl * Dusotal * 5-Ethyl-5-isopentylbarbituric acid sodium salt * 5-Ethyl-5-(3-methylbutyl)barbituric acid sodium derivative * 5-Isoamyl-5-ethylbarbituric acid, sodium deriv * Inmetal * 5-Ethyl-5-(3-methylbutyl)-2,4,6-(1H,3H,5H)-pyrimi dinetrione sodium salt * Sodium amobarbital * Sodium amylobarbitone * Sodium amytal * Sodium barbamyl * Sodium ethylisoamylbarbiturate * Sodium isoamylethyl barbiturate * t-Barb		

---

#### 3 - Hazards Identification

---

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Harmful if swallowed.

---

#### 4 - First Aid Measures

---

##### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give  
artificial respiration. If breathing is difficult, give oxygen.

##### AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for

at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

#### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

#### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

---

### 5 - Fire Fighting Measures

#### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

#### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

---

### 6 - Accidental Release Measures

#### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

#### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

---

### 7 - Handling and Storage

#### HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Conditions of Storage: Keep tightly closed.

---

### 8 - Exposure Controls / Personal Protection

#### ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

---

Appearance	Physical State: Solid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	N/A	
Flash Point	N/A	
Flammability	N/A	
Autoignition Temp	N/A	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	N/A	
SG/Density	N/A	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

---

## 10 - Stability and Reactivity

---

### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

---

## 11 - Toxicological Information

---

RTECS NUMBER: CQ5250000

### ACUTE TOXICITY

LD50  
Oral  
Rat  
275 mg/kg

LD50  
Intravenous  
Rat  
128 MG/KG  
Remarks: Behavioral:General anesthetic. Behavioral:Tremor.

LD50

Oral  
Mouse  
505 mg/kg

LD50  
Intraperitoneal  
Mouse  
200 MG/KG

LD50  
Subcutaneous  
Mouse  
200 MG/KG

LD50  
Oral  
Dog  
99 mg/kg

LD50  
Intravenous  
Dog  
75 MG/KG

Remarks: Behavioral:General anesthetic. Behavioral:Tremor.

LD50  
Oral  
Rabbit  
575 mg/kg

LD50  
Intraperitoneal  
Rabbit  
90 MG/KG

LD50  
Intravenous  
Rabbit  
70 MG/KG

Remarks: Behavioral:General anesthetic. Behavioral:Tremor.

#### SIGNS AND SYMPTOMS OF EXPOSURE

Overexposure can cause poor judgment, emotional instability, and at times a toxic psychosis. Neurological signs may include nystagmus, dysarthria, and ataxia. Prolonged or repeated exposure can lead to habituation or addiction.

#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: May cause eye irritation.

Inhalation: Harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

#### TARGET ORGAN INFORMATION

Central nervous system.

---

#### 12 - Ecological Information

---

No data available.

---

## 13 - Disposal Considerations

---

### SUBSTANCE DISPOSAL

Contact the Drug Enforcement Administration concerning the disposal of controlled substances. Observe all federal, state, and local environmental regulations.

---

## 14 - Transport Information

---

### RID/ADR

Non-hazardous for road transport.

### IMDG

Non-hazardous for sea transport.

### IATA

Non-hazardous for air transport.

---

## 15 - Regulatory Information

---

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22

Harmful if swallowed.

S-PHRASES: 36

Wear suitable protective clothing.

---

## 16 - Other Information

---

### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

### DISCLAIMER

For R&D use only. Not for drug, household or other uses.