

# Atropine sulfate: sc-337543



The Power to Question

## MATERIAL SAFETY DATA SHEET

### 1 Identification of substance:

**Product Name:** Atropine sulfate  
**Catalog Number:** sc-337543  
**Supplier:** Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, California 95060  
800.457.3801 or 831.457.3800  
**Emergency:** ChemWatch  
Within the US & Canada: 877-715-9305  
Outside the US & Canada: +800 2436 2255  
(1-800-CHEMCALL) or call +613 9573 3112

### 2 Hazards identification

Classification of the substance or mixture



GHS06 Skull and crossbones

H300 Fatal if swallowed.  
H330 Fatal if inhaled.

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



T+; Very toxic

R26/28: Very toxic by inhalation and if swallowed.

Label elements

Labelling according to EU guidelines:

Code letter and hazard designation of product:  
T+ Very toxic

Risk phrases:  
26/28 Very toxic by inhalation and if swallowed.

Safety phrases:  
25 Avoid contact with eyes.  
45 In case of accident or if you feel unwell, seek medical advice immediately.

Hazard description:  
WHMIS classification



Classification system  
HMIS ratings (scale 0-4)  
(Hazardous Materials Identification System)

HEALTH	3	Health (acute effects) = 3
FIRE	1	Flammability = 1
REACTIVITY	1	Reactivity = 1

Other hazards

Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

### 3 Composition/information on ingredients

Chemical characterization: Substances  
(CAS#) Description:  
Atropine sulfate (CAS# 55-48-1)  
Identification number(s):  
EINECS Number: 200-235-0  
Index number: 614-011-00-9

## 4 First aid measures

### Description of first aid measures

#### After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

#### After eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing** Seek immediate medical advice.

## 5 Firefighting measures

### Extinguishing media

#### Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

#### Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Sulfur oxides (SOx)

#### Advice for firefighters

##### Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

#### Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

#### Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### Handling

#### Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

**Information about protection against explosions and fires:** Keep ignition sources away.

#### Conditions for safe storage, including any incompatibilities

##### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

#### Information about storage in one common storage facility:

Store in the dark.

Store away from oxidizing agents.

#### Further information about storage conditions:

Keep container tightly sealed. Store at room temperature.

Store in cool, dry conditions in well sealed containers.

Protect from exposure to light.

## 8 Exposure controls/personal protection

### Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

#### Control parameters

**Components with limit values that require monitoring at the workplace:** Not required.

**Additional information:** No data

#### Exposure controls

##### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Breathing equipment:** Use suitable respirator when high concentrations are present.  
**Protection of hands:** Impervious gloves  
**Eye protection:** Safety glasses  
**Body protection:** Protective work clothing.

## 9 Physical and chemical properties

<b>Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
Form:	Powder
Formula:	(C17H23NO3)2 • H2SO4
Weight:	676.82
pH-value:	Not applicable.
<b>Change in condition</b>	
Melting point/Melting range:	189-192°C (372-378 °F)
Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point:	Not applicable
Flammability (solid, gaseous)	Not determined.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not applicable.
Density:	Not determined
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Segregation coefficient (n-octanol/water):	Not determined.
<b>Viscosity:</b>	
dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.

## 10 Stability and reactivity

### Reactivity

#### Chemical stability

#### Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known

#### Incompatible materials:

Light

Oxidizing agents

#### Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Nitrogen oxides

Sulfur oxides (SOx)

## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### Primary irritant effect:

**on the skin:** Irritant to skin and mucous membranes.

**on the eye:** Irritating effect.

**Sensitization:** No sensitizing effects known.

#### Subacute to chronic toxicity:

#### Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals:

Behavioral - excitement.

Lungs, Thorax, or Respiration - respiratory stimulation.

Skin and Appendages - hair.

Following test data is for anhydrous form.

Behavioral - ataxia.

Behavioral - hallucinations, distorted perceptions.

Behavioral - headache.  
 Behavioral - convulsions or effect on seizure threshold.  
 Behavioral - muscle weakness.  
 Behavioral - tremor.  
 Related to Chronic Data - death.  
 Endocrine - changes in adrenal weight.  
 Lungs, Thorax, or Respiration - other changes.  
 Lungs, Thorax, or Respiration - cyanosis.  
 Autonomic Nervous System - parasympatholytic.  
 Cardiac - change in rate.  
 Cardiac - pulse rate increase, without fall in BP.  
 Cardiac - arrhythmias (including changes in conduction).  
 Kidney, Ureter, Bladder - urine volume decreased.  
 Kidney, Ureter, Bladder - other changes.  
 Sense Organs and Special Senses (Eye) - effect, not otherwise specified.  
 Sense Organs and Special Senses (Eye) - mydriasis (pupillary dilation).  
 Sense Organs and Special Senses (Eye) - visual field changes.  
 Lungs, Thorax, or Respiration - acute pulmonary edema.  
 Gastrointestinal - other changes.  
 Gastrointestinal - nausea or vomiting.  
 Nutritional and Gross Metabolic - body temperature decrease.  
 Nutritional and Gross Metabolic - weight loss or decreased weight gain.  
 Vascular - regional or general arteriolar or venous dilation.  
 Reproductive - Fertility - mating performance (e.g. # sperm positive females per # females mated; # copulations per # estrus cycles)  
 Reproductive - Fertility - pre-implantation mortality (e.g. reduction in number of implants per female; total number of implants per corpora lutea)  
 Reproductive - Fertility - other measures of fertility.  
 Reproductive - Specific Developmental Abnormalities - musculoskeletal system.  
 Reproductive - Paternal Effects - spermatogenesis.  
**Additional toxicological information:**  
 To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
 No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## 12 Ecological information

### Toxicity

**Acquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Additional ecological information:

#### General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Do not allow material to be released to the environment without proper governmental permits.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

**Recommendation** Consult state, local or national regulations to ensure proper disposal.

### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### DOT regulations:



<b>Hazard class:</b>	6.1
<b>Identification number:</b>	UN1544
<b>Packing group:</b>	II
<b>Proper shipping name (technical name):</b>	ALKALOIDS, SOLID, N.O.S. (Atropine sulfate monohydrate)
<b>Label</b>	6.1

**Land transport ADR/RID (cross-border)**



**ADR/RID class:** 6.1 (T2) Toxic substances  
**Danger code (Kemler):** 60  
**UN-Number:** 1544  
**Packaging group:** II  
**UN proper shipping name:** 1544 ALKALOIDS, SOLID, N.O.S. (Atropine sulfate monohydrate)

**Maritime transport IMDG:**



**IMDG Class:** 6.1  
**UN Number:** 1544  
**Label:** 6.1  
**Packaging group:** II  
**Marine pollutant:** No  
**Proper shipping name:** ALKALOIDS, SOLID, N.O.S. (Atropine sulfate monohydrate)

**Air transport ICAO-TI and IATA-DGR:**



**ICAO/IATA Class:** 6.1  
**UN/ID Number:** 1544  
**Label:** 6.1  
**Packaging group:** II  
**Proper shipping name:** ALKALOIDS, SOLID, N.O.S. (Atropine sulfate monohydrate)

**UN "Model Regulation":** UN1544, ALKALOIDS, SOLID, N.O.S., 6.1, II

**Special precautions for user Warning:** Toxic substances

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

## 15 Regulatory information

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

**Product related hazard informations:**

**Hazard symbols:**

T+ Very toxic

**Risk phrases:**

26/28 Very toxic by inhalation and if swallowed.

**Safety phrases:**

25 Avoid contact with eyes.

45 In case of accident or if you feel unwell, seek medical advice immediately.

**National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

**Information about limitation of use:** For use only by technically qualified individuals.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.