

## Material Safety Data Sheet

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Version 1.1

According to 91/155/EEC

## 1 - Product and Company Information

Product Name	SULFANILAMIDE
Product Number	S9251
Company	Sigma-Aldrich Pty, Ltd Unit 2, 14 Anella Avenue Castle Hill NSW 1765 Australia
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## 2 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I Index Number
SULFANILAMIDE	63-74-1	200-563-4	None

Formula	C6H8N2O2S
Molecular Weight	172.21 AMU
Synonyms	Albexan * Albosal * Ambeside * p-Aminobenzenesulfamide * p-Aminobenzenesulfonamide * 4-Aminobenzenesulfonamide * p-Aminophenylsulfonamide * 4-Aminophenylsulfonamide * p-Anilinesulfonamide * Aniline-p-sulfonic amide * Antistrept * Astreptine * Astrocid * Bacteramid * Bactesid * Benzenesulfonamide, p-amino- * Collomide * Colsulanyde * Copticide * Deseptyl * Dipron * Ergaseptine * Erysipan * Estreptocida * F 1162 * 1162 F * Fourneau 1162 * Gerison * Gombardol * Lusil * Lysococcine * Neococcyll * Orgaseptine * PABS * Prontalbin * Prontosil album * Prontosil I * Prontosil White * Prontylin * Pronzin album * Proseptal * Proseptine * Proseptol * Pysococcine * Rubiazol A * Sanamid * Septamide album * Septanilam * Septinal * Septolix * Septoplex * Septoplix * Stopton album * Stramid * Streptamide * Strepsan * Streptagol * Streptamid * Streptasol * Streptocid album * Streptocide White * Streptoclase * Streptocom * Streptol * p-Sulfamidoaniline * Strepton *

## 3 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
 Not hazardous according to Directive 67/548/EC.

## 4 - First Aid Measures

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#### AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

#### 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.

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### 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.

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### 6 - Accidental Release Measures

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

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

#### 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.

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### 7 - Handling and Storage

#### HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Conditions of Storage: Keep tightly closed.

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### 8 - Exposure Controls / Personal Protection

#### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

#### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Wear dust mask.

Hand Protection: Protective gloves.  
Eye Protection: Chemical safety goggles.

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## 9 - Physical and Chemical Properties

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Appearance	Physical State: Solid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	N/A	
MP/MP Range	165 - 167 °C	
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	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

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

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## 11 - Toxicological Information

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RTECS NUMBER: WO8400000

### ACUTE TOXICITY

LD50  
Oral  
Rat  
3900 mg/kg

LD50  
Intravenous  
Rat  
1400 MG/KG

LD50  
Oral  
Mouse  
3000 mg/kg

LD50  
Intraperitoneal  
Mouse  
5 MG/KG

LD50  
Subcutaneous  
Mouse  
2900 MG/KG

LD50  
Intravenous  
Mouse  
500 MG/KG

LD50  
Oral  
Dog  
2000 mg/kg

LD50  
Oral  
Rabbit  
1300 mg/kg

LD50  
Oral  
Guinea pig  
3130 mg/kg

#### SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

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

Ingestion: May be harmful if swallowed.

#### CHRONIC EXPOSURE - CARCINOGEN

Rat

Route of Application: Subcutaneous

Exposure Time: 9W

Result: Tumorigenic: Carcinogenic by RTECS criteria.

Tumorigenic: Tumors at site of application.

#### CHRONIC EXPOSURE - MUTAGEN

Rat

30 UMOL/L

Cell Type: liver

DNA damage

## CHRONIC EXPOSURE - TERATOGEN

Species: Woman  
Dose: 974 MG/KG  
Route of Application: Unreported  
Exposure Time: (34-37W PREG)  
Result: Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow).

## CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Rat  
Dose: 22 MG/KG  
Route of Application: Oral  
Exposure Time: (1-22D PREG)  
Result: Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Weaning or lactation index (e.g., # alive at weaning per # alive at day 4).

Species: Rat  
Dose: 22 MG/KG  
Route of Application: Oral  
Exposure Time: (1-22D PREG)  
Result: Effects on Newborn: Growth statistics (e.g., reduced weight gain).

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### 12 - Ecological Information

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No data available.

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### 13 - Disposal Considerations

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#### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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### 14 - Transport Information

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#### RID/ADR

Non-hazardous for road transport.

#### IMDG

Non-hazardous for sea transport.

#### IATA

Non-hazardous for air transport.

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### 15 - Regulatory Information

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Not hazardous according to Directive 67/548/EC.

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### 16 - Other Information

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#### 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 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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