

## Material Safety Data Sheet

Date Printed: 09/JUN/2005  
Date Updated: 12/MAR/2004  
Version 1.2  
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	SEC-PHENETHYL ALCOHOL, 98%
Product Number	P13800
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154
Technical Phone #	+61 2 9841 0555 (1800 800 097)
Fax	+61 2 9841 0500 (1800 800 096)
Emergency Phone #	+44 8701906777 (1800 448 465)

---

### 2 - Composition/Information on Ingredients

---

Product Name	CAS #	EC no	Annex I Index Number
(+/-)-1-PHENYLETHANOL	98-85-1	202-707-1	None
Formula	C8H10O		
Molecular Weight	122.17 AMU		
Synonyms	Benzenemethanol, alpha-methyl- * Ethanol, 1-phenyl- * 1-Fenylethanol (Czech) * Fenyl-methylkarbinol (Czech) * Methanol, methylphenyl- * alpha-Methylbenzenemethanol * Methylphenylcarbinol * NCI-C55685 * alpha-Phenethyl alcohol * 1-Phenethyl alcohol * 1-Phenylethanol * Phenylmethylcarbinol * Styralyl alcohol * Styralyl alcohol		

---

### 3 - Hazards Identification

---

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

---

### 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. Do not induce vomiting.

---

## 5 - Fire Fighting Measures

---

#### EXTINGUISHING MEDIA

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

#### SPECIAL RISKS

Specific Hazard(s): Combustible liquid. 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

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

---

## 7 - Handling and Storage

---

#### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

#### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat and open flame. Store in a cool dry place.

---

## 8 - Exposure Controls / Personal Protection

---

#### ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

#### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

#### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Government approved respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

Special Protective Measures: Faceshield (8-inch minimum).

---

## 9 - Physical and Chemical Properties

---

Appearance	Physical State: Clear liquid Color: Colorless
Property	Value
pH	N/A
BP/BP Range	200 - 203 °C
MP/MP Range	20 °C
Flash Point	86 °C
Flammability	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	0.1 mmHg
SG/Density	1.01 g/cm <sup>3</sup>
Partition Coefficient	Log Kow: 1.42
Viscosity	N/A
Vapor Density	4.21 g/l
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	Solubility in Water: Soluble. Other Solvents: 29 G/L (20 °C)

---

## 10 - Stability and Reactivity

---

### STABILITY

Stable: Stable.

Materials to Avoid: Strong acids, Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

---

## 11 - Toxicological Information

---

RTECS NUMBER: D09275000

### ACUTE TOXICITY

LD50

Skin

Rabbit

2,500 mg/kg

LD50

Oral

Rat

400 mg/kg

LD50

Oral

Mouse

558 mg/kg

Remarks: Behavioral: Somnolence (general depressed activity).  
Lungs, Thorax, or Respiration: Respiratory depression.

LD50  
Subcutaneous  
Mouse  
250 MG/KG

LD50  
Skin  
Guinea pig  
>15 ML/KG

#### IRRITATION DATA

Skin  
Rabbit  
10 mg  
24H  
Remarks: Open irritation test

Skin  
Rabbit  
500 mg  
24H  
Remarks: Moderate irritation effect

Eyes  
Rabbit  
2 mg  
Remarks: Severe irritation effect

#### SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

#### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes severe eye irritation.  
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.  
Ingestion: Harmful if swallowed.

#### TARGET ORGAN INFORMATION

Kidneys.

#### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

Rat  
Route of Application: Oral  
Exposure Time: 2Y  
Result: Tumorigenic: Neoplastic by RTECS criteria. Kidney, Ureter, Bladder: Kidney tumors.

#### CHRONIC EXPOSURE - MUTAGEN

Mouse

250 MG/KG  
Cell Type: lymphocyte  
Mutation in mammalian somatic cells.

Hamster  
1 GM/L  
Cell Type: ovary  
Cytogenetic analysis

---

## 12 - Ecological Information

---

### ECOTOXICOLOGICAL EFFECTS

Test Type: LC50 Fish  
Species: Leuciscus idus  
Time: 48 h  
Value: 345 mg/l

---

## 13 - Disposal Considerations

---

### 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.

---

## 14 - Transport Information

---

### RID/ADR

UN#: 2937  
Class: 6.1  
PG: III  
Proper Shipping Name: alpha-Methylbenzylalcohol

### IMDG

UN#: 2937  
Class: 6.1  
PG: III  
Proper Shipping Name: ALPHA-METHYLBENZYL ALCOHOL,  
LIQUID  
Marine Pollutant: No  
Severe Marine Pollutant: No

### IATA

UN#: 2937  
Class: 6.1  
PG: III  
Proper Shipping Name: alpha-Methylbenzyl alcohol  
Inhalation Packing Group I: No

---

## 15 - Regulatory Information

---

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22 38 41

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

S-PHRASES: 26 39

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

## COUNTRY SPECIFIC INFORMATION

### Germany

WGK: 1 (self-classification)

### SWITZERLAND

SWISS POISON CLASS: 3

---

### 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 2005 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.