

## Material Safety Data Sheet

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Version 1.1

According to 91/155/EEC

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

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1 - Product and Company Information

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Product Name	3-PICOLINE, 99%
Product Number	P42053
Company	Sigma-Aldrich Pty. Ltd. 12 Anella Avenue Castle Hill NSW 2154 Australia
Technical Phone #	+61 2 9841 0555 (1800 800 097)
Fax	+61 2 9841 0500 (1800 800 096)
Emergency Phone #	+44 8701906777 (1800 448 465)

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2 - Composition/Information on Ingredients

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Product Name	CAS #	EC no	Annex I Index Number
3-PICOLINE (BETA)	108-99-6	203-636-9	None
Formula	C6H7N		
Molecular Weight	93.13 AMU		
Synonyms	beta-Methylpyridine * m-Methylpyridine * 3-Methylpyridine * beta-Picoline * m-Picoline * Pyridine, 3-methyl- (9CI)		

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3 - Hazards Identification

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## SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

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4 - First Aid Measures

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## 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.

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## 5 - Fire Fighting Measures

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### EXTINGUISHING MEDIA

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

### SPECIAL RISKS

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

Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion can occur under fire conditions. In advanced or massive fires the area should be evacuated and the fire should be fought from a remote explosion-resistant location.

### 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

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

Evacuate area. Shut off all sources of ignition.

### 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, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

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## 7 - Handling and Storage

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### HANDLING

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

### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame. Store under nitrogen.

SPECIAL REQUIREMENTS: Hygroscopic.

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## 8 - Exposure Controls / Personal Protection

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### ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### 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).

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## 9 - Physical and Chemical Properties

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Appearance	Physical State: Clear liquid Color: Slightly yellow-green	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	141 - 144 °C	
MP/MP Range	-19 °C	
Flash Point	37 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	538 °C	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	4.4 mmHg	20 °C
SG/Density	0.956 g/cm3	
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	3.2 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	N/A	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Conditions to Avoid: Hygroscopic.

Materials to Avoid: Acids, Acid chlorides, Oxidizing agents,  
Chloroformates.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide,  
and nitrogen oxides.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## 11 - Toxicological Information

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RTECS NUMBER: TJ5000000

### ACUTE TOXICITY

Inhalation

Rat

8,700 ppm

2HR

LD50 LD50

Oral Oral

Rat Rat  
400 mg/kg 400 mg/kg

LD50 LD50  
Intraperitoneal Intraperitoneal  
Rat Rat

150 MG/KG 150 MG/KG

Remarks: Behavioral:Somnolence (general depressed activity).  
Behavioral:Somnolence (general depressed activity).

LD50 LD50  
Intraperitoneal Intraperitoneal  
Mouse Mouse  
596 MG/KG 596 MG/KG

LD50 LD50  
Intravenous Intravenous  
Mouse Mouse  
298 MG/KG 298 MG/KG

LD50 LD50  
Skin Skin  
Guinea pig Guinea pig  
1000 mg/kg 1000 mg/kg

LD50 LD50  
Oral Oral  
Quail Quail  
1000 mg/kg 1000 mg/kg

LD50 LD50  
Oral Oral  
Bird (wild) Bird (wild)  
1000 mg/kg 1000 mg/kg

#### IRRITATION DATA

Skin Skin  
Rabbit Rabbit  
0.2 ml 0.2 ml  
24H 24H  
Remarks: Severe irritation effect Severe irritation effect

Eyes Eyes  
Rabbit Rabbit  
0.1 ml 0.1 ml  
24H 24H  
Remarks: Severe irritation effect Severe irritation effect

#### SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Damage to the liver. Damage to the kidneys.

#### ROUTE OF EXPOSURE

Skin Contact: Causes burns.  
Skin Absorption: Harmful if absorbed through skin.  
Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if inhaled.

Ingestion: Harmful if swallowed.

#### TARGET ORGAN INFORMATION

Liver. Kidneys.

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#### 12 - Ecological Information

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. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

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#### 14 - Transport Information

##### RID/ADR

UN#: 2313

Class: 3

PG: III

Proper Shipping Name: Picolines

##### IMDG

UN#: 2313

Class: 3

PG: III

Proper Shipping Name: Picolines

Marine Pollutant: No

Severe Marine Pollutant: No

##### IATA

UN#: 2313

Class: 3

PG: III

Proper Shipping Name: Picolines

Inhalation Packing Group I: No

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#### 15 - Regulatory Information

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##### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: C

Corrosive.

R-PHRASES: 10 20/21/22 34

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns.

S-PHRASES: 16 26 36/37/39 45

Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

##### COUNTRY SPECIFIC INFORMATION

Germany  
WGK: 1

SWITZERLAND  
SWISS POISON CLASS: 3

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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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