

## SAFETY DATA SHEET

Version 4.7  
Revision Date 03/06/2015  
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1. PRODUCT AND COMPANY IDENTIFICATION

## 1.1 Product identifiers

Product name : 3-Methylpyridine

Product Number : P42053  
Brand : Aldrich

CAS-No. : 108-99-6

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

## 1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052

## 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

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2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 3), H226  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Inhalation (Category 3), H331  
Acute toxicity, Dermal (Category 3), H311  
Skin corrosion (Category 1B), H314  
Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : Danger

Hazard statement(s)

H226 : Flammable liquid and vapour.  
H302 : Harmful if swallowed.  
H311 + H331 : Toxic in contact with skin or if inhaled.  
H314 : Causes severe skin burns and eye damage.  
H318 : Causes serious eye damage.

Precautionary statement(s)

P210 : Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 : Keep container tightly closed.  
P240 : Ground/bond container and receiving equipment.

|                           |                                                                                                                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P241                      | Use explosion-proof electrical/ ventilating/ lighting/ equipment.                                                                                                                       |
| P242                      | Use only non-sparking tools.                                                                                                                                                            |
| P243                      | Take precautionary measures against static discharge.                                                                                                                                   |
| P261                      | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.                                                                                                                                  |
| P264                      | Wash skin thoroughly after handling.                                                                                                                                                    |
| P270                      | Do not eat, drink or smoke when using this product.                                                                                                                                     |
| P271                      | Use only outdoors or in a well-ventilated area.                                                                                                                                         |
| P280                      | Wear protective gloves/ protective clothing/ eye protection/ face protection.                                                                                                           |
| P301 + P312 + P330        | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.                                                                                                |
| P301 + P330 + P331        | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                                                                                      |
| P303 + P361 + P353        | IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.                                                                            |
| P304 + P340 + P310        | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.                                 |
| P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. |
| P363                      | Wash contaminated clothing before reuse.                                                                                                                                                |
| P370 + P378               | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.                                                                                                   |
| P403 + P233               | Store in a well-ventilated place. Keep container tightly closed.                                                                                                                        |
| P403 + P235               | Store in a well-ventilated place. Keep cool.                                                                                                                                            |
| P405                      | Store locked up.                                                                                                                                                                        |
| P501                      | Dispose of contents/ container to an approved waste disposal plant.                                                                                                                     |

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

|                  |                                   |
|------------------|-----------------------------------|
| Synonyms         | : 3-Picoline                      |
| Formula          | : C <sub>6</sub> H <sub>7</sub> N |
| Molecular weight | : 93.13 g/mol                     |
| CAS-No.          | : 108-99-6                        |
| EC-No.           | : 203-636-9                       |

#### Hazardous components

| Component               | Classification                                                                                                    | Concentration |
|-------------------------|-------------------------------------------------------------------------------------------------------------------|---------------|
| <b>3-Methylpyridine</b> |                                                                                                                   |               |
|                         | Flam. Liq. 3; Acute Tox. 4;<br>Acute Tox. 3; Skin Corr. 1B;<br>Eye Dam. 1; H226, H302,<br>H311 + H331, H314, H318 | <= 100 %      |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

hygroscopic

Storage class (TRGS 510): Flammable liquids

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

| Component        | CAS-No.  | Value | Control parameters | Basis                                               |
|------------------|----------|-------|--------------------|-----------------------------------------------------|
| 3-Methylpyridine | 108-99-6 | TWA   | 2.000000 ppm       | USA. Workplace Environmental Exposure Levels (WEEL) |
|                  | Remarks  | Skin  |                    |                                                     |
|                  |          | STEL  | 5.000000 ppm       | USA. Workplace Environmental Exposure Levels (WEEL) |
|                  |          | Skin  |                    |                                                     |

### 8.2 Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Splash contact

Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 30 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

##### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |                    |                                             |
|--------------------|---------------------------------------------|
| a) Appearance      | Form: clear, liquid<br>Colour: light yellow |
| b) Odour           | No data available                           |
| c) Odour Threshold | No data available                           |

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| d) pH                                           | No data available                          |
| e) Melting point/freezing point                 | Melting point/range: -19 °C (-2 °F) - lit. |
| f) Initial boiling point and boiling range      | 144 °C (291 °F) - lit.                     |
| g) Flash point                                  | 37 °C (99 °F) - closed cup                 |
| h) Evaporation rate                             | No data available                          |
| i) Flammability (solid, gas)                    | No data available                          |
| j) Upper/lower flammability or explosive limits | No data available                          |
| k) Vapour pressure                              | 5.9 hPa (4.4 mmHg) at 20 °C (68 °F)        |
| l) Vapour density                               | 3.22 - (Air = 1.0)                         |
| m) Relative density                             | 0.957 g/cm <sup>3</sup> at 25 °C (77 °F)   |
| n) Water solubility                             | soluble                                    |
| o) Partition coefficient: n-octanol/water       | log Pow: 1.2 at 20 °C (68 °F)              |
| p) Auto-ignition temperature                    | 488 °C (910 °F) at 1,009 hPa (757 mmHg)    |
| q) Decomposition temperature                    | No data available                          |
| r) Viscosity                                    | No data available                          |
| s) Explosive properties                         | No data available                          |
| t) Oxidizing properties                         | No data available                          |

## 9.2 Other safety information

Relative vapour density 3.22 - (Air = 1.0)

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

acids, Acid chlorides, Oxidizing agents, Chloroformates

### 10.6 Hazardous decomposition products

Other decomposition products - No data available  
In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male - 360 mg/kg  
(OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rat - 1,000 mg/kg

No data available

**Skin corrosion/irritation**

Skin - Rabbit

Result: Causes burns.

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Risk of serious damage to eyes.

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

reverse mutation assay

S. typhimurium

Result: negative

OECD Test Guideline 474

Mouse - male and female

Result: negative

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: TJ5000000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish                      semi-static test LC50 - Brachydanio rerio (zebrafish) - 560 - 1,000 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic                      EC50 - Daphnia magna (Water flea) - 320 mg/l - 48 h (OECD Test Guideline 202)

invertebrates

Toxicity to algae                      static test EC50 - Selenastrum capricornutum (green algae) - 320 mg/l - 72 h  
(OECD Test Guideline 201)

## 12.2 Persistence and degradability

Biodegradability                      aerobic - Exposure time 28 d  
Result: 85 % - Readily biodegradable  
(OECD Test Guideline 301B)  
Remarks: No data available

## 12.3 Bioaccumulative potential

Bioaccumulation                      Cyprinus carpio (Carp) - 28 d

Bioconcentration factor (BCF): 2.6  
(OECD Test Guideline 305C)

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

No data available

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# 13. DISPOSAL CONSIDERATIONS

## 13.1 Waste treatment methods

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

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# 14. TRANSPORT INFORMATION

## DOT (US)

UN number: 2313                      Class: 3                      Packing group: III  
Proper shipping name: Picolines  
Reportable Quantity (RQ):

Poison Inhalation Hazard: No

## IMDG

UN number: 2313                      Class: 3                      Packing group: III                      EMS-No: F-E, S-D  
Proper shipping name: PICOLINES

## IATA

UN number: 2313                      Class: 3                      Packing group: III  
Proper shipping name: Picolines

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# 15. REGULATORY INFORMATION

## SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**

3-Methylpyridine

CAS-No.  
108-99-6

Revision Date

**New Jersey Right To Know Components**

3-Methylpyridine

CAS-No.  
108-99-6

Revision Date

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3.**

|             |                                           |
|-------------|-------------------------------------------|
| Acute Tox.  | Acute toxicity                            |
| Eye Dam.    | Serious eye damage                        |
| Flam. Liq.  | Flammable liquids                         |
| H226        | Flammable liquid and vapour.              |
| H302        | Harmful if swallowed.                     |
| H311        | Toxic in contact with skin.               |
| H311 + H331 | Toxic in contact with skin or if inhaled. |
| H314        | Causes severe skin burns and eye damage.  |
| H318        | Causes serious eye damage.                |
| H331        | Toxic if inhaled.                         |

**HMIS Rating**

|                        |   |
|------------------------|---|
| Health hazard:         | 3 |
| Chronic Health Hazard: | * |
| Flammability:          | 3 |
| Physical Hazard        | 0 |

**NFPA Rating**

|                    |   |
|--------------------|---|
| Health hazard:     | 3 |
| Fire Hazard:       | 3 |
| Reactivity Hazard: | 0 |

**Further information**

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**Preparation Information**

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956

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