SIGMA-ALDRICH

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Material Safety Data Sheet

Version 5.0 Revision Date 09/18/2012 Print Date 11/25/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: 4-Acetylpyridine

Product Number Brand

: A21401 : Aldrich

Supplier

: Sigma-Aldrich

3050 Spruce Street

SAINT LOUIS MO 63103

USA

Telephone

Fax

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

Emergency Phone # (For

(314) 776-6555

both supplier and

manufacturer) Preparation Information

: Sigma-Aldrich Corporation

Product Safety - Americas Region

1-800-521-8956

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

Irritant

GHS Classification

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram

Signal word

Warning

Hazard statement(s)

H315

H319

Causes skin irritation. Causes serious eye irritation.

H335 May cause respiratory irritation.

2

2

Precautionary statement(s)

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: Flammability:

Physical hazards: 0

NFPA Rating

Health hazard: Fire:

Reactivity Hazard: 0

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Potential Health Effects

Inhalation Skin

May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation.

Eyes

Causes eve irritation.

Ingestion

May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Methyl 4-pyridyl ketone

Formula

C7H7NO

Molecular Weight : 121.14 g/mol

Component		Concentration			
Methyl 4-pyridyl ketone					
CAS-No.	1122-54-9	-			
EC-No.	214-350-9				

4. FIRST AID MEASURES

General advice

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

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

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Suitable extinguishing media

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

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

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Conditions for safe storage

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

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).

Hand 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.

Immersion protection

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: > 480 min

Material tested: Vitoject® (Aldrich Z677698, Size M)

Splash protection

Material: Chloroprene

Minimum layer thickness: 0.6 mm

Break through time: > 30 min

Material tested:Camapren® (Aldrich Z677493, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, 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 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.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Colour light brown

Safety data

no data available

Melting Melting point/range: 13 - 16 °C (55 - 61 °F) - lit.

point/freezing point

Boiling point 212 °C (414 °F) - lit. Flash point 104 °C (219 °F) - closed cup

Ignition temperature no data available

Autoignition

no data available

temperature

Lower explosion limit no data available Upper explosion limit no data available Vapour pressure no data available

Density 1.095 g/mL at 25 °C (77 °F)

Water solubility

no data available

Partition coefficient: n-octanol/water

no data available

Relative vapour

no data available density

Odour no data available Odour Threshold no data available Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available

Conditions to avoid

no data available

Materials to avoid

Strong oxidizing agents, Strong acids, Strong reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50

Inhalation LC50

Dermal LD50

no data available

Other information on acute toxicity

LD50 Intraperitoneal - mouse - 1,400 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

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Carcinogenicity

IARC: No compor

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

Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation

May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin

May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

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

Synergistic effects

no data available

Additional Information

RTECS: OB5426000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 168 mg/l - 96 h

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

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additional terms and conditions of sale.

13. DISPOSAL CONSIDERATIONS

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

Not dangerous goods

Not dangerous goods

OSHA Hazards

Irritant

15. REGULATORY INFORMATION

SARA 302 Components

SARA 313 Components

SARA 311/312 Hazards

Massachusetts Right To Know Components

Pennsylvania Right To Know Components

New Jersey Right To Know Components

Methyl 4-pyridyl ketone

Methyl 4-pyridyl ketone

California Prop. 65 Components

Acute Health Hazard

reproductive harm.

Further information

16. OTHER INFORMATION

disposal service to dispose of this material.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

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

(De Minimis) reporting levels established by SARA Title III, Section 313.

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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold

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

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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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for

CAS-No.

1122-54-9

CAS-No.

1122-54-9

Product

DOT (US) Not dangerous goods

IMDG

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Revision Date

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