

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT & MANUFACTURER'S DETAILS

PRODUCT NAME : 4-(Aminomethyl)pyridine

MANUFACTURER

FACTORY & REGISTERED OFFICE:
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2. CHEMICAL IDENTIFICATION

- CHEMICAL NAME : 4-(Aminomethyl)pyridine
- SYSTEMATIC NAME : Pyridine, 4-(Aminomethyl)- (9CI+)
- SYNONYMS : 4-Picolylamine; (4-Pyridylmethyl)amine; 4-Pyridinemethanamine; 4-Picolinamine; 4-Picolinylamine; 4-Pyridinemethylamine; 4-Pyridinylmethanamine.
- CHEMICAL CLASSIFICATION : Pyridine derivative
- CHEMICAL FORMULA : C₆H₈N₂
- C.A.S. NO : 3731-53-1
- EINECS : 223-092-6

3. HAZARD IDENTIFICATION & HEALTH HAZARD

- Overview: Corrosive liquid. May cause burns to skin, eyes and respiratory tract on exposure.
- **Eye :** May cause burns.
- **Skin:** Causes severe skin irritation.
- **Ingestion:** Harmful if swallowed.
- **Inhalation:** High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract..
- The toxicological properties of this substance have not been fully investigated.

4. FIRST AID MEASURES

Eye:

Immediately flush eyes with plenty of water for at least 15 minutes by separating eyelids with fingers. Seek immediate medical attention.

4. FIRST AID MEASURES

Skin:

Remove contaminated clothing and shoes. Flush skin with copious amount of water for at least fifteen minutes. Wash contaminated clothing before reuse.

Inhalation:

Persons who have been in contact with the substance or have inhaled fumes should get immediate medical attention. Pass on all available product information. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion:

If swallowed, wash mouth with water if the person is conscious. Make the victim drink plenty of water. Do not induce vomiting, since this chemical is corrosive. Get medical help.

5. FIRE FIGHTING MEASURES

Flash point: 226.4°F; 108 °C (Method: closed cup)

Extinguishing media:

Water spray, chemical powder, carbon dioxide, and foam.

Special fire fighting procedure:

This product is a severe irritant. Wear protective clothing and self-contained breathing apparatus.

Unusual fire and explosion hazard:

Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

- Stop leak if possible.
- Do not inhale vapour and avoid substance contact
- Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves
- Absorb in an inert material and place in a suitable container.
- Do not allow to enter sewerage system.
- Ventilate sewers and basements where there is no risk to personnel or public.

7. HANDLING AND STORAGE

- Store in cool and dry place
- Keep containers tightly closed
- Wear suitable protective clothing, gloves and eye/face protection
- Do not breathe vapour, mist or gas
- Avoid contact with eyes, skin & clothing

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls
 - Use only in a chemical fume hood.
 - Facilities must have a shower and eye-bath.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Personnel Protection
 - Avoid inhalation of vapour. Avoid contact with eyes, skin and clothing.
 - Wear suitable protective clothing
 - Goggles and face shield required..
 - Wear rubber or suitable gloves.
 - NIOSH/MSHA or equivalent approved respirator if conditions demand.
 - Wash thoroughly after handling.

9. PHYSICOCHEMICAL PROPERTIES & FIRE/ EXPLOSION HAZARD

PHYSICAL STATE	: Oily liquid
APPEARANCE	: Light to deep yellow
ODOUR	: Amine like
BOILING POINT	: 228-230°C
MELTING POINT	: -8°C
FLASH POINT	: 108°C
VAPOUR PRESSURE	: Data not available
SP. GRAVITY/DENSITY	: 1.069
VAPOR DENSITY (AIR=1)	: Data not available
SOLUBILITY IN WATER	: Highly soluble
pH	: 10-11
FLAMMABILITY	
UEL	: Data not available
LEL	: Data not available
AUTO IGNITION TEMPERATURE	: Data not available
EXPLOSIVE SENSITIVITY TO IMPACTS	: Data not available
EXPLOSIVE SENSITIVITY TO STATIC ELECTRICITY	: Data not available
FLAMMABLE MATERIAL	: No
PYROPHORIC MATERIAL	: No
EXPLOSIVE MATERIAL	: No
OXIDISER	: No
ORGANIC PEROXIDE	: No
CORROSIVE MATERIAL	: No
MOLECULAR WEIGHT	: 108.14

10. STABILITY AND REACTIVITY

- Stable under normal temperature & pressures
- Incompatible with strong oxidising agents, strong acids.
- Conditions to avoid - incompatible materials, skin contact, vapour generation
- Hazardous combustion or decomposition products:
Thermal decomposition may produce carbon dioxide, carbon monoxide and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

- **Acute effects:**
Harmful if swallowed, inhaled, or absorbed through skin.
High concentrations are extremely destructive to tissues of mucous membrane, upper respiratory tract, eyes and skin
The toxicological properties have not been thoroughly investigated yet . It is a corrosive type material, should be handled with the care usual for dealing with such chemicals.
Symptoms: Shortness of breath, nausea, & vomiting.
- **Toxicity:**
ORAL RAT LD50 : Data not available
- **Carcinogenicity:**
Not list by ACGIH, IARC or NTP .
RTECS # : There is no public listing known to the best of our knowledge.

12. ECOLOGICAL INFORMATION

- Do no allow to enter waters, waste water or soil

13. DISPOSAL CONSIDERATION

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Observe all federal, state and local environmental regulations

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME	:	Amines, liquid, corrosive, n.o.s (4-(Aminomethyl)pyridine)
UN/ID NUMBER	:	2735
UN HAZARD CLASS	:	8
UN PACKING GROUP	:	II

15. REGULATORY INFORMATION

European information

- EC NO. : 223-092-6
- Symbol of danger: C (Corrosive)
- Risk and Safety Phrases:
 - R-34 Causes burns
 - R-37 Irritating to the respiratory system.
 - S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S-28 After contact with skin , wash immediately with plenty of soap and water.
 - S- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - S-45 In case of accident, if you feel unwell, seek medical advice immediately.

US information

- Is listed in EPA TSCA chemical inventory.

15. REGULATORY INFORMATION

- None of the chemicals in this product is listed under TSCA section 12b
- None of the chemicals in this product has an RQ under SARA Section 302 RQ
- None of the chemicals in this product has an TPQ under SARA Section 302 TPQ
- None of the chemicals in this product is reported under SARA Section 313
- None of the chemicals in this product contains any class1 & class2 ozone depletors , neither contains any hazardous air pollutants under 'Clean Air Act'
- None of the chemicals in this product are listed as Hazardous substances or priority pollutants or Toxic substances list under 'Clean Water Act'.

Canada

CAS#3731-53-1: Listed on NDSL on 31-Jan-1998.

16. OTHER INFORMATION

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