



2-Amino-6-methylpyridine

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of Compilation	: November 28, 2012
Date of Revision	: February 19, 2024
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Revision Number	: 09
Version Name	: 0019Gj Ghs09 Div.3 sds 2-Amino-6-methylpyridine
Supersedes date	: January 01, 2024
Supersedes version	: 0019Gj Ghs08 Div.3 sds 2-Amino-6-methylpyridine

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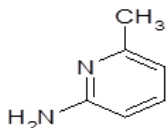
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According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

PRODUCT NAME	: 2-Amino-6-methylpyridine
CAS RN	: 1824-81-3
EC#	: 217-360-1
SYSTEMATIC NAME	: 2-Picoline, 6-amino- (8CI), 2-Pyridinamine, 6-methyl-
SYNONYMS	: 2-Amino-6-Picoline; 6-Amino-2-picoline, 6-Methyl-2-aminopyridine; 6-Methyl-2- pyridinamine
MOLECULAR FORMULA	: C ₆ H ₈ N ₂
STRUCTURAL FORMULA	



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

1.2.1. Relevant identified uses

2-Amino-6-methylpyridine is used as an intermediate in the pharmaceutical industry for the manufacture of nalidixic acid etc. It is also used for laboratory utilization, analysis, research and fine chemistry.

Uses advised against: None

1.3. Details of the supplier of the safety data sheet

Jubilant Ingrevia Limited

FACTORY & REGISTERED OFFICE: Jubilant Ingrevia Limited, Bhartiagram, Gajraula, District: Amroha, Uttar Pradesh-244223, India.
T +91-5924-267437 & +91-5924-267438

HEAD OFFICE: Jubilant Ingrevia Limited, Plot 1-A, Sector 16-A, Institutional Area, Noida, Uttar Pradesh, 201301 - India

T +91-120-4361000 - F +91-120-4234881 / 84 / 85 / 87 / 95 / 96 support@jubl.com - www.jubilantingrevia.com

1.4. Emergency telephone number

For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident) Call

Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)

Chemtrec (India) : 000-800-100-7141

For ALL other emergencies call Emergency Control Room Gajraula at 99970 22412

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion / irritant: Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritant: Category 2A	H319	Causes serious eye irritation.
Acute toxicity Oral: Category 3	H301	Toxic if swallowed.
Acute Toxicity Dermal: Category 2	H310	Fatal in contact with skin.
STOT-SE: Category 3	H335	May cause respiratory irritation

2.2. Label Elements

Hazard Pictogram: GHS06

Signal Word: Danger!



GHS 06

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H301: Toxic if swallowed.
- H310: Fatal in contact with skin.



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- H335: May cause respiratory irritation.

PRECAUTIONARY STATEMENTS

- P261: Avoid breathing dust/fume/gas/mist/vapor/spray.
- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P270: Do not eat, drink or smoke when using this product.
- P262: Do not get in eyes, on skin, or on clothing.
- P271: Use only outdoors or in well ventilated area.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P337+313: If eye irritation persists: Get medical advice/attention.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330: Rinse mouth.
- P302+350: IF ON SKIN: Gently wash with soap and water.
- P310: Immediately call a POISON CENTER or doctor/physician.
- P361: Remove/Take off immediately all contaminated clothing.
- P363: Wash contaminated clothing before reuse.
- P403+P233: Store in a well ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container to local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical	CAS #	EC#	Purity	GHS Classification
2-Amino-6-methylpyridine	1824-81-3	217-360-1	>98%	Skin corrosion / irritant: Category 2 Serious eye damage/eye irritant: Category 2A Acute toxicity Oral: Category 3 Acute Toxicity Dermal: Category 2 STOT-SE: Category 3

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- **Eyes:** If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
- **Skin:** Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.
- **Ingestion:** If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Key symptoms

Acute effects

- 2-Amino-6-methylpyridine is fatal in contact with skin. Toxic if swallowed. Causes convulsions. Irritating to eye, skin and upper respiratory tract.

Target organs

- Lungs, Respiratory, Kidney, Bladder.

Chronic effects

- To the best of our knowledge chronic effects of this compound have not been fully investigated.

4.3 Indication of any immediate medical attention and special treatment needed

- **Note to Physician:** No specific indications. Treat symptomatically.



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SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

- *Appropriate extinguishing media:* Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water spray may be effective. Water can be effective in cooling down the fire-exposed containers and knocking down the vapors. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

5.2. Special Protective Equipment and Precautions for Fire Fighter:

- This material is extremely hazardous to health, but fire fighters may enter areas with extreme care. Full protective clothing including a self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms and waist should be provided. No skin surface should be exposed.
- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing. The chemical is harmful in contact with skin.
- Report any run-off of fire waters contaminated with this chemical as per local and federal procedures applicable

5.3. Unusual fire and explosion hazard:

- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and cyanide.
- High vapor concentration may result in an explosion hazard.
- Vapors are heavier than air. May travel considerable distance from source and flashback.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Minor Spills

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.

Major Spill

- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Clear area of personnel and move upwind.
- Stop leaks if possible.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Spread area with lime or absorbent material, and leave for at least 1 hour before washing.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

- Do not breathe vapor or mist.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Ground and secure containers when dispensing or pouring product.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Launder contaminated clothing before re-use.
- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Use in a well-ventilated place/Use protective clothing commensurate with exposure levels.

7.2. Conditions for safe storage, including any incompatibilities

- Store at ambient temperature in a dry and well ventilated place.
- Store locked up.
- Store away from incompatible materials.
- Keep securely closed when not in use

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

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8.1. Control parameters

Exposure Limits Values

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Amino-6-methylpyridine	No data is available	No data is available	No data is available

Exposure Limits (International):

- Not available.

OSHA Vacated PELs:

- No OSHA Vacated PELs are listed for this chemical.

Derived No-Effect-Levels (DNEL) / Predicted No-effect-concentration (PNEC)

DNEL and PNEC data not available

8.2. Exposure controls

Appropriate Engineering Controls:

- Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3. Personal Protection

- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
- **Hands:** Wear appropriate protective gloves to prevent skin exposure.
- **Eyes:** Safety goggles/ Chemical Safety glasses and Face shield.
- **Clothing:** Boots and clothing to prevent contact.
- **Respirator:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.
- For emergency situations, wear a positive pressure, pressure-demand, full face piece self-contained breathing apparatus (SCBA) or pressure-demand supplied air respirator with escape SCBA and a fully-encapsulating, chemical resistant suit. (EPA, 1998).

General Hygiene and general comments:

- Wash hands and face after working with substance.
- Immediately change contaminated clothing.
- Apply skin protective barrier cream.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Off white to yellow crystalline solid
2.	Odor	Typical
3.	Odor Threshold	Not available
4.	Melting point	40-45 °C
5.	Boiling point	208-209 °C
6.	Flash point	103 °C
7.	Evaporation rate (n-BuAc=1)	Not available
8.	Explosive limits	Not available
9.	Vapor pressure	0.14
10.	Vapor density (air=1)	3.73
11.	Specific gravity (water=1)	Not available
12.	Solubility	Freely soluble in water
13.	pH	Not available
14.	Log Kow (octanol/water)	1.08
15.	Auto-ignition temperature	Not available
16.	Decomposition temperature	Not available



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17.	Viscosity	Not available
18.	Flammability	Non Flammable
19.	Oxidizer	No
20.	Explosive material	No

SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** No data available.
- **Stability:** Stable under normal condition of temperature and pressure.
- **Conditions to avoid:** Keep away from heat, sparks, flame, high temperature and incompatible chemicals. Avoid contact with water. Material is hygroscopic.
- **Incompatible chemicals:** Moisture, contact with water, oxidizing agents, strong acids and nitriles.
- **Hazardous decomposition:** Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & nitrogen and irritating and toxic fumes.
- **Hazardous Polymerization:** Not reported.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

- 2-Amino-6-methylpyridine is fatal in contact with skin. Toxic if swallowed. Causes convulsions. Irritating to eye, skin and upper respiratory tract.

RTECS#: US1885000

Toxicity data:

Type of Test	Route of Exposure	Species Observed	Dose Data
LD50 - Lethal dose, 50 percent kill	Oral	Rat	100 mg/kg
LD50 - Lethal dose, 50 percent kill	Dermal	Guinea Pig	125mg/kg
LD50 - Lethal dose, 50 percent kill	Intravenous	Mouse	18mg/kg
LD50 - Lethal dose, 50 percent kill	Subcutaneous	Mouse	52mg/kg

Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	No data available.
Germ cell Mutagenicity	:	No data available
Carcinogenicity	:	Not listed by NTP, IARC and OSHA. Not present on the EU CMR list According to information presently available 2-Amino-6-methylpyridine is not found to be carcinogenic.
Reproductive toxicity	:	No data available.
STOT-single exposure	:	May cause irritation to respiratory system
STOT- repeated exposure	:	No data available.
Aspiration Hazards	:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Eco toxicity:

2-Amino-6-methylpyridine (1824-81-3)

Fish ChV	0.38 mg/kg (estimated).
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12.2. Persistence and degradability

- It is not expected to be readily biodegradable in aerobic and anaerobic conditions.

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- It is expected to be found predominantly in soil and its persistence estimate is based on its transformation in this medium. Its half-life in soil, 75 days, exceeds the EPA criteria of ≥ 2 months (and ≤ 6 months). Therefore, 2-Pyridinamine, 6-methyl- is estimated to be persistent in the environment.

12.3. Bioaccumulative potential

2-Amino-6-methylpyridine (1824-81-3)	
Bio concentration factor	2.4 (Estimated)
Log Kow	1.08. Low potential to bio accumulate.

Based on the Log Kow and Bioconcentration factor value it is expected to have low potential to concentrate in fatty tissue of fish and aquatic organisms. These results are estimated and it is recommended that this material should not be disposed into the environment.

12.4. Mobility in soil

2-Amino-6-methylpyridine (1824-81-3)	
Koc	72.53. Very low absorption.
Henry's Law constant	2.75E-009 atm-m ³ /mole. Non- volatile from aqueous bodies.
Log Kow	1.08. Low potential to bioaccumulate.

12.5. Other adverse effects.

- Environment Fate:**
Based on environmental modeling, it is estimated to be persistent in the environment and is expected to be found predominantly in soil. It is also expected to be found in water but not in sediment. It has low potential to bio accumulate and does not biodegrade readily. It is not expected to bio accumulate also. Since this is an estimated result, it is recommended that the material should not be disposed into the environment. The material should never be disposed into the sewage.


SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

SECTION 14: TRANSPORT INFORMATION

- This substance is considered to be hazardous for transportation by Air/ Rail/ Road and Sea and thus regulated by IATA/ ICAO/ IMO/ IMDG/ US DOT.

S.No	Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
Land Transport	DOT	UN 2811	Toxic solid, organic, n.o.s. (2-Amino-6-methylpyridine)	6.1	II
Maritime Transport	IMDG	UN 2811	TOXIC SOLID, ORGANIC, N.O.S.(2-Amino-6-methylpyridine)	6.1	II
Air Transport	IATA	UN 2811	Toxic solid, organic, n.o.s. (2-Amino-6-methylpyridine)	6.1	II
Hazard Label		Toxic, 6.1			

Environmental hazards:

- Marine pollutant: No.

SECTION 15: REGULATORY INFORMATION

Classification as per CLP Regulation 1272/2008:

- Hazards Class and Category:** Skin Irrit. Cat.2; Eye Irrit. Cat. 2; Acute tox.Oral cat3;Acute tox Dermal Cat 2
- Hazard Statements:** H315;H319; H301; H310

Chemical Inventory Lists:	Status
TSCA:	Listed (Active)



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EINECS:	217-360-1
Canada(DSL/NDSL):	Listed (NDSL)
Japan:	9-117
Korea:	-----
Australia:	Listed
China: IECSC	Listed
New Zealand	Listed

US information

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act): 2-Amino-6-methylpyridine not listed

SARA 302/304 : 2-Amino-6-methylpyridine not listed

SARA 311/312 : See section 2 for more information

California Prop. 65: 2-Amino-6-methylpyridine not listed

CAA (Clean Air Act): 2-Amino-6-methylpyridine not listed

CWA (Clean Water Act): 2-Amino-6-methylpyridine not listed

EU Information

Water hazard class (WGK) 3, severe hazards to water

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: 2-Amino-6-methylpyridine not listed

SECTION 16: OTHER INFORMATION

a) Compilation information of safety data sheet

Date of compilation	: November 28, 2012
Chemical	: 2-Amino-6-methylpyridine
CAS #	: 1824-81-3
File Name	: 0019Gj Ghs09 Div.3 sds 2-Amino-6-methylpyridine
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b) A key or legend to aberrations and acronyms used in the safety data sheet

- PBT =Persistent Bio accumulative and Toxic.
- vPvB= Very Persistent and Very Bio accumulative.
- SCBA= Self Contained Breathing Apparatus.
- NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit.
- OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA= Occupational Exposure Limit Time Weighted Averages.
- RTECS= Registry of Toxic Effects of Chemical Substances.
- NTP=National Toxicology Program.
- IARC= International Agency for Research on Cancer.
- EPA=Environmental Protection Agency.
- TSCA= Toxic Substances Control Act.
- SARA= Superfund Amendments and Reauthorization Act.
- DSL/NDSL= Domestic/Non-Domestic Substances List.
- BCF = Bio Concentration Factor.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- REACH = Registration, Evaluation .Authorization and Restriction of Chemicals.
- CLP = Classification, Labeling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonized System.
- IMDG-Code = International Maritime Code for Dangerous Goods.
- US DOT = United States Department Of Transportation
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

c) Key Literature reference and sources for data

Biographical reference and data sources

- Globally Harmonized System of Classification and Labelling of Chemicals.
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009.
- PBT Profiler
- RTECS



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SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

(End of Safety Data Sheet)
