2-Methoxypyridine
Safety Data Sheet

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

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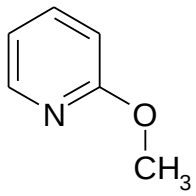
According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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

1.1 Product Identifier

Product name	: 2-Methoxypyridine
CAS RN	: 1628-89-3
EC#	: 216-623-8
Technical Name	: 2-methoxypyridine
Molecular Formula	: C_6H_7ON
Structural Formula	



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

Use of the substance: 2-Methoxypyridine is used as an intermediate in the synthesis of Active Pharmaceutical Ingredients.

1.3. Details of the supplier of the safety data sheet

FACTORY & REGISTERED OFFICE: Jubilant Ingrevia Limited, Bhartiagram, Gajraula, And 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

Flammable Liquid: Category 3
Skin corrosion/ Irritation-Category 2
Eye Damage / Irritation -Category 2B

2.2 Label Elements

Hazard Pictogram: GHS02, GHS 07
Signal Word: Warning!

GHS02 GHS 07

2.3 Hazard and Precautionary Statements:

HAZARD STATEMENTS

H226: Flammable liquid and Vapor.
H315: Cause skin irritation.
H319: Causes serious eye irritation

PRECAUTIONARY STATEMENTS

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.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378: In case of fire: Use water for extinction.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P405: Store in a well ventilated place. Keep cool.
P501: Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS #	EC#	% Area	GHS Classification
2-Methoxypyridine	1628-89-3	216-623-8	~99%	Flammable Liquid: Category 3 Skin corrosion/ Irritation-Category 2 Eye Damage / Irritation -Category 2A

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- **Skin contact:** Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- **Ingestion:** Get medical advice/attention if you feel unwell. Rinse mouth.

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

- **Symptoms/effects:**
  Acute: Redness.
  Delayed: No data available.

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

- No data available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.
- Unsuitable extinguishing media: Solid streams of water

5.2 Special hazards arising from the substance or mixture

- Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.
- Hazardous combustion products: These products include: Carbon oxides Nitrogen oxides

5.3 Advice for firefighters

- Wear self-contained breathing apparatus for firefighting if necessary

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. See Section 12 for additional ecological information.

6.3 Methods and materials for containment and cleaning up

- Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Handling is performed in a well ventilated place.
- Wear suitable protective equipment.
- Prevent generation of vapour or mist.
- Keep away from heat/sparks/open flame/hot surfaces. -No smoking.

- Take measures to prevent the build up of electrostatic charge.
- Use explosion-proof equipment.
- Wash hands and face thoroughly after handling.
- Use a closed system if possible.
- Use a ventilation, local exhaust if vapour or aerosol will be generated.
- Avoid contact with skin, eyes and clothing.
- Handling should be performed in a well ventilated place.

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed.
- Store at ambient temperature in a dark and well-ventilated place.
- Store away from incompatible materials such as oxidizing agents.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

- **Occupational Exposure limit values**
  No data available
- **Biological limit values**
  No data available

8.2 Exposure controls

Appropriate Engineering Controls:

- Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath. The use of local exhaust is recommended to avoid dust emissions.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

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

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: No protective equipment is needed under normal use conditions.

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

8.4 General hygiene considerations

- Avoid contact with skin, eyes and clothing.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- When using do not eat, drink or smoke.

8.5 Additional Information

- No data available

8.6 Control of environmental exposure

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties.

Sr. No.	Parameter	Typical value
1.	Appearance	Colorless to pale yellow liquid.
2.	Odor	No data available
3.	Odor Threshold	No data available
4.	pH	No data available
5.	Melting point	No data available
6.	Boiling Point	142.5^0 C
7.	Flash point	32°C (closed cup)
8.	pKa (@250C)	No data available
9.	Evaporation rate (n-BuAc=1)	No data available
10.	Flammability	Flammable
11.	Upper/lower flammability or Explosive limits	No data available
12.	Vapor pressure	No data available
13.	Vapor density (air=1)	No data available
14.	Density	1.035-1.045 g/cm^3
15.	Solubility in water	Soluble in methylene chloride, toluene, acetone etc.
16.	Partition coefficient : n-(Octonol / water)	1.34
17.	Auto-ignition temperature	No data available
18.	Decomposition temperature	No data available
19.	Viscosity	No data available
20.	Explosive property	Non explosive
21.	Oxidizing property	Non oxidising

SECTION 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

- No special reactivity has been reported.

10.4 Conditions to avoid

- Air, flame, heat, spark, static-discharge

10.5 Incompatible materials

- Strong oxidizing agents.

10.6 Hazardous decomposition products

- Hazardous decomposition products: toxic fumes of Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No data available.
Skin irritation / corrosion: Causes skin irritation.
Eye irritation: Causes serious eye irritation
Skin sensitisation: No sensitizing effect known
Repeated dose toxicity: oral: No data available.
Repeated dose toxicity: No data available.
Repeated dose toxicity: No data available.
Genetic toxicity: No data available.
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.
Reproductive and Developmental toxicity: No data available.
STOT-single exposure: No data available.
STOT- repeated exposure: No data available.
Aspiration Hazards: No data available.
RTECS- Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- Short-term toxicity to fish

  No data available

- Short-term toxicity to aquatic invertebrates

  No data available

- Toxicity to aquatic algae and cyanobacteria

  No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential

No data available

12.4 Mobility in Soil

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Exert extra care in igniting, as this material is flammable.
- 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.

Contaminated packaging

- Dispose of as unused product. Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

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

ADR/ RID/ DOT	IMDG	IATA
14.1 UN number		
UN1993	UN1993	UN1993
14.2 UN proper shipping name		
FLAMMABLE LIQUIDS, N.O.S. (2-Methoxypyridine)	FLAMMABLE LIQUIDS, N.O.S. (2-Methoxypyridine)	FLAMMABLE LIQUIDS, N.O.S. (2-Methoxypyridine)
14.3 Transport hazard class(es)		
3	3	3
14.4 Packing group		
III	III	III
14.5 Pictogram		
		
14.6 Environmental hazards		
Dangerous for the environment: -No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

SECTION 15: REGULATORY INFORMATION

Chemical Inventory Lists:	Status
TSCA:	Not Listed
EC Inventory	Listed (216-623-8)
Canada(DSL/NDSL):	Not Listed
China Catalog of Hazardous chemicals 2015	Not Listed
New Zealand Inventory of Chemicals (NZIoC)	Not Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Listed

Inventory of Existing and New Chemical Substances (ENCS)	Not Listed
Japan ISHL Existing Substances List (ISHL)	Not Listed
China: IECSC	Not Listed
Existing Chemicals List (KECI)	Not Listed
Australian Inventory of Chemical Substances (AICS)	Not Listed

a) : Compilation information of safety data sheet

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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.
- IDLH= Immediately Dangerous to Life or Health.
- UEL= Upper Explosive Limit.
- LEL= Lower Explosive Limit.
- 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.
- CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act.
- SARA= Superfund Amendments and Reauthorization Act.
- NFPA= National Fire Protection Association.
- WHIMS= Workplace Hazardous Materials Information System.
- DSL/NDSL= Domestic/Non-Domestic Substances List.
- CSR=Chemical Safety Report.
- BCF = Bio Concentration Factor.
- DNEL = Derived No Effect Level.
- PNEC = Predicted No Effect Concentration.
- 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.
- EmS = Emergency measures on Sea.
- 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.

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)