



3- (Hydroxymethyl)pyridine

Safety Data Sheet

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

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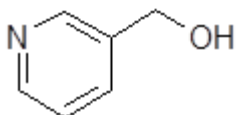
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING

Product identifier

PRODUCT NAME	: 3-(Hydroxymethyl)pyridine
CAS RN	: 100-55-0
EC#	: 202-864-6
SYNONYMS	: 3-Pyridinemethanol, 3-(Hydroxymethyl) pyridine, 3-Pyridinylmethanol, 3-Pyridylcarbinol, 3-Pyridylmethanol Nicotiny alcohol
TECHNICAL NAME	: 3-(Hydroxymethyl)pyridine
MOLECULAR FORMULA	: C ₆ H ₇ NO
STRUCTURAL FORMULA	



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

Relevant identified uses

3-(Hydroxymethyl)pyridine is used as an intermediate in the pharmaceutical industry.

Uses advised against: None

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

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

Classification of the substance or mixture

Classification according to according to GHS-US classification

Skin corrosion/irritation: Category 2)	H315	Causes skin irritation.
Eye irritation (Category 2)	H319	Causes serious eye irritation.
Specific Target organ Toxicity (single exposure)(Category 3)	H335	May cause respiratory irritation

Label Elements

According to GHS-US classification



Hazard Pictogram: GHS 07

Signal Word: *Warning!*

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation

GHS 07



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PRECAUTIONARY STATEMENTS

- P264: Wash hands thoroughly after handling.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- 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+P313: If eye irritation persists: Get medical advice attention
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- 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.

Other Hazards

- Not available. For further details see section 12.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

S.No.	Chemical	CAS #	EC#	% Composition
1	3-(Hydroxymethyl)pyridine	100-55-0	202-864-6	~99%

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Key symptoms

Acute effects:

- 3-(Hydroxymethyl)pyridine is irritating to skin and respiratory system. It causes serious eye irritation.

Chronic effects:

- No effects known.

FIRST AID

- Consult a physician. Show this safety data sheet to the doctor in attendance.
- **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 off with soap and plenty of water. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation:** If breathed in, move person into 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. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media

- *Appropriate extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide, Carbon di-oxide.
- Vapors are heavier than air. May travel considerable distance from source and flashback.

Advice for firefighters

- Evacuate the area and fight fires from a safe distance.



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- 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)
- Report any run-off of firewaters contaminated with this chemical as per local and federal procedures applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel

- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wipe up.
- Decontaminate all equipment.
- Use non-sparking tools.

For emergency personnel

- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Stop leaks if possible.
- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.

Environmental precautions

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.
- Wipe up.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust.)
- Ensure adequate ventilation

Methods and material for containment and cleaning up

- Clean up all tools and equipment.
- Decontaminate all equipment.

Reference to other sections

- For more information please refer to section 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

- Avoid breathing dust, vapor, mist or gas.
- Avoid contact with eyes, skin.
- 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.
- Keep away from sources of ignition - No smoking.
- 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.

Conditions for safe storage, including any incompatibilities

- Store at ambient temperature in well ventilated place.
- Keep securely closed when not in use.
- Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Store away from oxidizing agents.
- Material is hygroscopic, Keep away from humidity and water



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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits Values

Chemical name	STEL (ppm)	NIOSH	OSHA	ACGIH
3- (Hydroxymethyl)pyridine	None available	None available	None available	None available

Exposure Limits (International):

- Not available.

Exposure controls

Appropriate Engineering Controls:

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

Personal Protection

- **Hand Protection:** Wear suitable gloves resistant to chemical penetration Avoid contact with skin & Eyes
- **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).
- **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.
- **Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee 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).
- **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.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

General Hygiene and general comments:

- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.
- Apply skin protective barrier cream.
- 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	Clear, colorless to yellow liquid
2.	Molecular weight	109.13
3.	Odor	Characteristic odour
4.	Odor Threshold	Not Available
5.	pH (10% aqueous sol.)	Not Available
6.	Melting point/Freezing point	-29 °C.
7.	Boiling Point	231.6 °C
8.	Flash point	135 °C at 1013.25 hPa.
9.	Evaporation rate (n-BuAc=1)	Not Available
10.	Flammability	Not flammable
11.	Upper/lower flammability or Explosive limits	Not Available
12.	Vapor pressure at 20 °C (68 °F):	0.342 Pa at 20 °C
13.	Specific gravity (water=1)	1.136
14.	Solubility	Soluble in water(>1000 g/L).Freely soluble in ether.
15.	Partition coefficient : n-(Octonol / water)	-0.11 at 25°C



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16.	Auto-ignition temperature	275 °C
17.	Decomposition temperature	Not Available
18.	Viscosity	Not Available
19.	Explosive property	No

SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** No data available.
- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to avoid:** Exposure to light
- **Incompatible chemicals:** Strong oxidizing agents, Strong acids, Halides, Alkalis
- **Hazardous decomposition products:** Thermal decomposition may produce carbon monoxide, nitrogen oxide and carbon di-oxide.
- **Possibility of hazardous reactions:** Not reported.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity and Irritation Studies:

RTECS#: UT4690000

Acute Toxicity LD50: oral: >2000 mg/kg (Rat: wistar)

Acute Toxicity LD50: intravenous: 1 g/kg (Rodent- mouse)

Skin corrosion/irritation	:	Causes skin irritation
Eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitization	:	No data available
Germ cell Mutagenicity	:	Based on available data the classification criteria are not met.
Carcinogenicity	:	Not listed by IARC and OSHA. 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 toxicity	:	According to the information presently available 2,4-Difluoronitrobenzene has not been tested for its ability to affect reproduction.
STOT-single exposure	:	May cause irritation to respiratory system.
STOT- repeated exposure	:	No data available.
Aspiration Hazards	:	No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity:

Short-term toxicity to aquatic invertebrates

- EC50/LC50 for freshwater invertebrates: 676 mg/L

Toxicity to aquatic algae and cyanobacteria

- EC50 based on growth rate was determined to be above 100 mg/L
- EC10, LC10 or NOEC for freshwater algae: 12 mg/L



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- It has estimates that 3-Pyridinemethanol is not chronically toxic to fish. It is important to note that these results do not suggest that 3-Pyridinemethanol will not be toxic to all aquatic organisms.

Persistence and degradability

- 3- (Hydroxymethyl) pyridine is not expected to be classified as persistent in the environment. It is considered as ready biodegradable.

Bio accumulative potential

- No data available

Mobility in soil

- No data available

Other adverse effects

- **Environment Fate:**

Based on the environmental modeling, this material has a low potential to get absorbed in the organic matter of soil and is non-volatile from water bodies and is not expected to be bio-accumulative or persistent in the environment. 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

Waste treatment methods

- Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging

- Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

- This substance is considered to be non-Hazardous for transport by Air/Rail/Road and Sea and thus not regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

ADR/ RID	IMDG	IATA
UN number		
Not applicable	Not applicable	Not applicable
UN proper shipping name		
Not dangerous goods	Not dangerous goods	Not dangerous goods
Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Packing group		
.Not applicable	Not applicable	Not applicable
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

Classification as per CLP Regulation 1272/2008:

- **Hazards Class and Category:** Skin corrosion/irritation: Category 2),Eye irritation (Category 2),Specific Target organ Toxicity (single exposure) (Category 3)
- **Hazard Statements:** H315,H319,H335

Chemical Inventory Lists:	Status
TSCA:	Listed
EC/ List No.	202-864-6
Canada(DSL/NDSL):	Listed (NDSL)



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Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	Listed
New Zealand Inventory (NZIoC)	Listed
Japan Inventory of Existing and Notified Substances (ENCS)	5-727
Japan ISHL Existing Substances List (ISHL)	Listed
Existing Chemicals List (KECI)	KE-29943
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Listed
Australian Inventory of Chemical Substances (AICS)	Not Listed

US information

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

3-(Hydroxymethyl)pyridine is not listed

SARA 302/304 : 3-(Hydroxymethyl)pyridine is not listed

SARA 311/312 : See section 2 for more information

California Prop. 65: 3-(Hydroxymethyl)pyridine is not listed

CAA (Clean Air Act): 3-(Hydroxymethyl)pyridine is not listed

CWA (Clean Water Act): 3-(Hydroxymethyl)pyridine is not listed

EU Information

Water hazard class (WGK): WGK 1 (Low hazards to water)

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: 3-(Hydroxymethyl)pyridine is not listed

SECTION 16: OTHER INFORMATION

a) Compilation information of safety data sheet

Date of compilation	: June 12, 2013
Chemical	: 3- (Hydroxymethyl)pyridine
CAS #	: 100-55-0
File Name	: 0427Gj Ghs06 Div.3 sds 3-(Hydroxymethyl)pyridine
Revision Number	: 06
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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.
- WHIMS= Workplace Hazardous Materials Information System.
- DSL/NDL= Domestic/Non-Domestic Substances List.
- BCF = Bio Concentration Factor.



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- 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.
- ADR = Accord European relative au transport international de marchandises.
- 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.
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009
- REG (EC) no. 1907/2006, last modification by REG (EC) Nr. 830/2015.

d) List of hazard statements

Hazards Statements	
	<ul style="list-style-type: none">• H315: Causes skin irritation.• H319: Causes serious eye irritation.• H335: May cause respiratory irritation

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)