



Safety Data Sheet

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

Product Identification: 2-Acetyl-6-methylpyridine 0140Gj Ghs06 Div.03 sds 2-Acetyl-6-methylpyridine

Date of issue: February 19, 2024

Date of Compilation : September 17, 2013

Date of Revision : February 19, 2024

Revision Due Date : January, 2027

Revision Number : 06

Version Number : 0140 Ghs06 Div.03 sds 2-Acetyl-6-methylpyridine

Supersedes date : January 02, 2024

Supersedes version : 0140 Ghs05 Div.03 sds 2-Acetyl-6-methylpyridine



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SECTION 1.: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product identification: 2-Acetyl-6-methylpyridine; CAS RN: 6940-57-4; EC#: 806-088-4

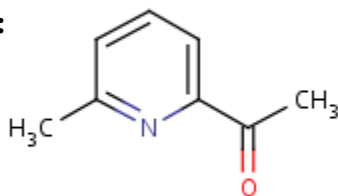
1.1.1. **Trade name:** 2-Acetyl-6-methylpyridine.

1.1.2. **Systematic Name:** 2-Acetyl-6-methylpyridine.

1.1.3. **Synonyms:** 6-Methyl-2-acetylpyridine; 6-Acetyl-2-methylpyridine; 1-(6-Methyl-2-pyridinyl)ethanone; Ethanone, 1-(6-methyl-2-pyridinyl)-; 1-(6-Methylpyridin-2-yl)ethan-1-one; 1-(6-Methylpyridin-2-yl)ethan-1-one, 6-Acetyl-2-picoline;

1.1.5 **Molecular Formula:** C₈H₉NO

1.1.6. **Structural Formula:**



1.2 Identified Uses: 2-Acetyl-6-methylpyridine is used as a chemical intermediate in organic synthesis and pharmaceutical drug.

Uses advised against: Not available.

1.3 Company / supplier: *FACTORY & REGISTERED OFFICE:*

Jubilant Ingrevia Limited
Bhartiagram, Gajraula
District: Amroha
Uttar Pradesh-244223, India
PHONE NO: +91-5924-267437
+91-5924-267438

HEAD OFFICE:

Jubilant Ingrevia Limited
Plot 1-A, Sector 16-A,
Institutional Area, Noida,



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Uttar Pradesh-201301 India.

PHONE NO: +91-120-4361000

FAX NO : +91-120- 4234881 / 84 / 85 / 87 / 95 / 96

Email: support@jubl.com

Website: www.jubilantingrevia.com

1.3 CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS :

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: HAZARDS IDENTIFICATION

2.1 Classification of the substance

GHS US CLASSIFICATION

Flammable Liquid: Category 4	H227
Acute Toxicity (Oral): Category 4	H302
Eye damage/eye irritant: Category 2	H319
Skin corrosion/irritation: Category 2	H315
STOT-Single Exposure: Category 3	H335

2.2 Label elements

Pictograms:



GHS 07-Exclamation

Signal word:

Warning!

Hazard and precautionary statements:

Hazard Statements

- H227: Combustible liquid.
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.



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PRECAUTIONARY STATEMENTS

- P210: Keep away from flames and hot surfaces.-No smoking.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264: Wash hands, eyes and face thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only out doors or in a well ventilated area.
- P280: Wear protective gloves/clothing and eye/face protection.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330: Rinse mouth.
- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312: Call POISON CENTER or doctor/physician if you feel unwell.
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305 + 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.
- P370+P378: In case of fire: Use water for extinction.
- P403+P233: Store in a well ventilated place. Keep container tightly closed.
- P403+P235: Store in a well ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container to local/regional/national/international regulations.

2.3 Other Hazards

- Substance is not classified as PBT nor as vPvB. For further details see section 12.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS No.	EINECS No.	Purity	GHS US CLASSIFICATION		
				Hazard Classes and categories	Pictograms Signal Words	Hazard Statements



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2-Acetyl-6-methylpyridine	6940-57-4	806-088-4	≥ 98.5 %	Flammable liquid: Category 4 Acute toxicity (oral): Category 4 Eye damage/eye irritant: Category 2 Skin Corrosion/irritation: Category 2 STOT-Single Exposure: Category 3	GHS 07	H227 H302 H315 H319 H335
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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. If not breathing give artificial respiration 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.

- **Acute effects:**
2-Acetyl-6-methylpyridine causes irritation to skin, eyes. It may cause respiratory tract irritation.
- **Chronic effects:**
To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

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

- **Note to physician:** Treat symptomatically.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1. Extinguishing media.



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- *Appropriate extinguishing media:* Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. Do not use water jet. Use water spray. Water can be effective in cooling down the fire-exposed containers and knocking down the vapours. 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 hazards arising from the substance or mixture.

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

5.3. Advice for firefighters.

- 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).
- Report any run-off of firewater's contaminated with this chemical as per local and federal procedures applicable.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1 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.

6.1.2 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.

6.2. Environmental precautions.



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- 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.
- Contain spill with sand, earth or vermiculite.
- Spread area with lime or absorbent material, and leave for at least 1 hour before washing.

6.3. Methods and material for containment and cleaning up.

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

6.4. Reference to other sections.

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

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.
- Keep away from open flames, hot surfaces and sources of ignition.
- 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 away from incompatible materials.
- Keep container tightly closed.

7.3. Specific end use(s)

- 2-Acetyl-6-methylpyridine is used as a chemical intermediate in organic synthesis and pharmaceutical drug.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

8.1.1 Exposure Limits Values



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Chemical name	NIOSH	ACGIH	OSHA
2-Acetyl-6-methylpyridine	None available	None available	None available

8.1.2 Exposure Limits (International):

- Not available.

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

- DNEL and PNEC data not available.

8.2. Exposure controls

8.2.1 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.

8.2.2. 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.

General Hygiene and general comments:

- Wash hands and face after working with substance.
- Immediately change contaminated clothing.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Clear colorless to light yellow liquid



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2.	Odor	Odorless
3.	Odor Threshold	Not available
4.	pH	Neutral
5.	Melting point/Freezing point	31.77 °C
6.	Boiling Point	209 °C
7.	Flash point	84 °C
8.	Evaporation rate (n-BuAc=1)	Not available
9.	Flammability	Combustible liquid
10.	Upper/lower flammability or Explosive limits	Not available
11.	Vapor pressure	0.2
12.	Vapor density (air=1)	Not available
13.	Relative density/Density	1.04 g/mL
14.	Solubility	Insoluble in water
15.	Partition coefficient : n-(Octonol / water)	1.03
16.	Auto-ignition temperature	Not available
17.	Decomposition temperature	Not available
18.	Viscosity	Not available
19.	Explosive property	Not available
20.	Oxidizing property	Not available



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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

- No data available.

10.2. Chemical stability

- Stable under normal temperature and pressure.

10.3. Possibility of hazardous reactions

- Hazardous Polymerization: Not reported.

10.4. Conditions to avoid

- Keep away from heat, sparks, flame, high temperature and incompatible chemicals, dust generation. Keep away from strong oxidizing agents and strong acids.

10.5. Incompatible materials

- Strong oxidizing agents, strong acid.

10.6. Hazardous decomposition products

- Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & irritating and toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) Acute toxicity

- 2-Acetyl-6-methylpyridine is Harmful if swallowed causes irritation to skin, eyes. It may cause respiratory tract irritation.

TOXICITY:

RTECS#: Not available.

Oral rat LD₅₀- 1889.52 mg/kg (Predicted Oral rat LD50 from Consensus method)

b) Skin corrosion/irritation

- It causes skin irritation.

c) Serious eye damage/irritation

- It may cause eye irritation.

d) Respiratory or skin sensitization

- No data is available.

e) Germ cell Mutagenicity

- No data is available.

f) Carcinogenicity

- Not listed by NTP, IARC and OSHA.



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- Not present on the EU CMR list.
- According to information presently available 2-Acetyl-6-methylpyridine is not found to be carcinogenic.
- g) Reproductive toxicity**
 - No data is available.
- h) STOT-single exposure**
 - May cause respiratory irritation
- i) STOT- repeated exposure**
 - No data available.
- j) Aspiration Hazards**
 - No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1 Ecotoxicity:

- Fathead minnow LC50 (96 hr)- 96.13 mg/L (Predicted Fathead minnow LC50 (96 hr) from Consensus method)
- Daphnia magna LC50 (48 hr)- 36 mg/L (Predicted Daphnia magna LC50 (48 hr) from Consensus method)

12.2. Persistence and degradability (Estimated)

- It has estimated that 2-Acetyl-6-methylpyridine 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-Acetyl-6-methylpyridine is estimated to be persistent in the environment. It is not readily biodegradable.

12.3. Bio accumulative potential

- BCF = 0.5795
- Log Kow = 1.03

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. It has estimated that 2-Acetyl-6-methylpyridine is not expected to bioaccumulate in the food chain because it does not exceed the BCF criteria.

12.4. Mobility in soil

- Koc= 40.93 (Estimated). Low sorption.
- Henry's Law Constant: $1.42E-008$ atm-m³/mole at 25 degrees.



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- Log Kow= 1.03 Low potential to bio accumulate.

12.5. Results of PBT and vPvB assessment

- The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII

12.6. 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. 2-Acetyl-6-methylpyridine is estimated to be 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

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 Non Hazardous for transport by Air/Rail/Road and Sea and thus Not regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

Mode of Transport	Agency
Land transport	ADR/RID
Maritime Transport	IMDG
Air Transport	IATA

14.1. UN number

- Not applicable.

14.2. UN proper shipping name

- Not applicable.

14.3. Transport hazard class (es)

- Not applicable.



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14.4. Packing group

- Not applicable.

14.5. Environmental hazards

- Marine pollutant: No.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Classification (as per Regulation (EC) No 1272/2008):

- **Hazards Class and Category:** Acute Tox (Oral) 4, Skin Corr.2, Eye Irrit. 2, STOT SE 3
- **Hazard Statements:** H302; H315; H319; H335

US Information:

Chemical Inventory Lists:	Status
TSCA:	Not Listed
EINECS:	Not Listed
Canada(DSL/NDSL):	Not Listed
Japan:	Not Listed
Korea:	Not Listed
Australia:	Not Listed
China: IECSC	Not Listed

US information

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

SARA 302/304 : 2-Acetyl-6-methylpyridine is not listed

SARA 311/312 : See section 2 for more information

California Prop. 65: 2-Acetyl-6-methylpyridine is not listed

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

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

EU Information

Water hazard class (WGK): WGK 3 (Severe hazards to water)

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

SECTION 16: OTHER INFORMATION



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(a) Compilation information of safety data sheet

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CAS: 6940-57-4

File Name: 0140 Ghs06 Div.03 sds 2-Acetyl-6-methylpyridine

Revision Number: 06

Date of Issue of SDS: February 19, 2024

Revision Due Date: January, 2027

(b) A key or legend to aberrations and acronyms used in the safety data sheet;

- PBT = Persistent Bioaccumulative and Toxic
- vPvB= Very Persistent and Very Bioaccumulative
- 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 Programm
- 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 .Authorisation and Restriction of Chemicals
- CLP = Classification, Labelling and Packaging
- LD / LC = Lethal Doses / Lethal Concentration
- GHS = Globally Harmonised System



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- ADR = Accord europeen 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

- 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.
- Globally Harmonized System of Classification and Labelling of Chemicals.

(d) List of Hazard statements.

Hazards Statements	<ul style="list-style-type: none">• H227: Combustible liquid.• H302: Harmful if swallowed.• H315: Causes skin irritation.• H319: Causes serious eye irritation.• H335: May cause respiratory irritation.
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Company's Declaration:

Information contained in this SDS is believed to be correct but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. This SDS shall be used as a guide only. Jubilant Ingrevia Limited makes no warranties expressed or implied of the adequacy of this document for any particular purpose.

(End of Safety Data Sheet)