



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

SDS Code : 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine
Date of Compilation : July 20, 2015
Date of Revision : March 11, 2024
Due Date of Revision : February, 2027
Revision Number : 07
Version Number : 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine
Supersedes date : April 04, 2023
Supersedes version : 0769Gj Ghs06 Div.3 sds 2-Hydroxy-5-methylpyridine



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

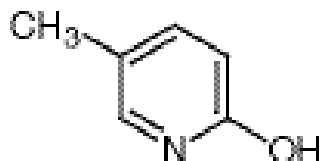
Date of issue: March 11, 2024

SECTION 1: IDENTIFICATION

PRODUCT NAME 2-Hydroxy-5-methylpyridine
CAS RN 1003-68-5
EC# 213-713-9
SYNONYM 6-HYDROXY-3-PICOLINE;5-METHYL-2(1H)PYPRIDINONE;5-METHYL-2(1H)-PYRIDINONE;5-METHYL-2(1H)PYRIDONE;5-METHYL-2-PYRIDINOL;5-METHYL-PYRIDIN-2-OL;5-METHYLPYRIDINE-2-ONE
SYSTEMATIC NAME 2-Hydroxy-5-methylpyridine

MOLECULAR FORMULA C₆H₇NO

STRUCTURAL FORMULA



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.
PHONE NO: +91-120-4361000
FAX NO : +91-120- 4234881 / 84 / 85 / 87 / 95 / 96
Email: support@jubl.com
Website: www.jubilantingrevia.com



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

EMERGENCY TELEPHONE :

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

PRODUCT USES:

- It is used as a laboratory chemical, Manufacture of substances

SECTION 2: HAZARDS IDENTIFICATION

Acute toxicity oral: Category 4
Skin Corrosion/irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2B
Specific target organ toxicity-Single exposure: Category 3



Hazard Pictogram: GHS 07

Signal Word: Warning!

HAZARD AND PRECAUTIONARY STATEMENTS:

HAZARD STATEMENTS

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

PRECAUTIONARY STATEMENTS

Prevention

- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventillated area.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

Response

- P301+P312: If swallowed: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P330: Rinse mouth.
- P302+P352: If on skin: Wash with plenty of soap and water.
- P321: Specific treatment (see... on the label).
- 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.
- P304+P340: If INHALED: Remove victim to fresh air and keep at rest in a position.
- P312: Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage

- P403+P233: Store in a well ventilated place. Keep container tightly closed.
- P405: Store locked up.

Disposal

- P501: Dispose of contents/container to local/regional/national/international regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Sr.No.	Chemical	CAS #	EC#	Purity
1.	2-Hydroxy-5-methylpyridine	1003-68-5	213-713-9	99% min.

SECTION 4: FIRST AID MEASURES

Key symptoms

Acute effects:

- It is harmful if swallowed, causes irritation to eye and skin and is a specific organ toxicity.

Chronic effects:

- To the best of our knowledge the chemical, physical and toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

FIRST AID:

- **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.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

- **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.

SECTION 5 : FIRE-FIGHTING MEASURES

Flash Point: Not available

Flammability: Non flammable liquid

Extinguishing media:

- **Appropriate extinguishing media:** Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. 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.

Special Protective Equipment and Precautions for Fire Fighter:

- 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.

Unusual fire and explosion hazard:

- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide carbon di-oxide and irritating and toxic fumes.
- 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 all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Use non-sparking tools.

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.
- Prevent, by any means available, spillage from entering drains or water and watercourses.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- 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

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.
- 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.

Storage

- Store in air tight container below 30°C and excursion allowed up to 40°C.
- Store away from incompatible materials.
- Keep securely closed when not in use.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Limits Values

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Hydroxy-5-methylpyridine	Not established	Not established	Not established

Exposure Limits (International):

- Not available.

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.

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.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

- **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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties.**

Sr.No.	Parameter	Typical value
1.	Appearance	Yellow to Beige color solid
2.	Odor	Characteristic
3.	Odor Threshold	Not available
4.	pH (16g/l water @200C)	7.25
5.	Melting point/Freezing point	183-187 °C
6.	Boiling Point	304.2 °C at 760 mmHg
7.	Flash point	170.6 °C
8.	Evaporation rate (n-BuAc=1)	Not available
9.	Flammability	Non flammable
10.	Upper/lower flammability or Explosive limits	Not available



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

11.	Vapor pressure	Not available
12.	Vapor density (air=1)	Not available
13.	Molecular weight	109.13
14.	Relative density	0.54 g/cm ³
15.	Solubility	Soluble in water
16.	Partition coefficient : n-(Octanol / water)	0.29 (estimated)
17.	Auto-ignition temperature	Not available
18.	Decomposition temperature	Not available
19.	Viscosity	Not available
20.	Explosive property	No
21.	Oxidizing property	No

SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Stable under normal condition of temperature and pressure.
- **Conditions to avoid:** Avoid excessive heat and light, open flames that may induce thermal decomposition.
- **Incompatible chemicals:** Strong oxidizing agents.
- **Hazardous decomposition products:** Carbon monoxide, Hydrogen Cyanide, and oxides of nitrogen.
- **Hazardous Polymerization:** Not reported.

SECTION 11: TOXICOLOGICAL INFORMATION

a) Acute toxicity

- 2-Hydroxy-5-methylpyridine is harmful if swallowed and can causes skin and eye irritation.
LD50 (Oral) Rat- 511.63 mg/kg (Predicted oral rat LD50 from consensus method-USEPA Tool)

b) Skin corrosion/irritation

- Causes skin irritation.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

c) *Serious eye damage/irritation*

- Causes 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.
- Not present on the EU CMR list.
- According to information presently available 2-Hydroxy-5-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

Ecotoxicity: Toxicity

Fathead minnow LC50 (96 hr)- 64.65 mg/L (Predicted Fathead minnow LC50 (96 hr) from Consensus method)

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in soil

- No data available

Results of PBT and vPvB assessment

- No data available



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

Other adverse effects.

Environment Fate:

- Based on the environmental modal it is predicted that 2-Hydroxy-5-methylpyridine is not expected to be classified as persistent in the environment. Since this is an estimated result, necessary guidelines should be followed before disposing off the material into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

- 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.

Environmental hazards:

- Marine pollutant: No.

SECTION 15: REGULATORY INFORMATION

Classification as per CLP Regulation 1272/2008:

- Hazards Class and Category:** Acute oral tox. Cat 4, Skin Irrit. Cat.2, Eye irrit. Cat 2, Specific organ tox. Cat 3
- Hazard Statements:** H302;H315;H319;H335

Chemical Inventory Lists:	Status
TSCA:	Not Listed
EINECS:	213-713-9
Canada(DSL/NDSL):	Not Listed
Japan:	Not Listed
Korea:	Not listed
Australia:	Not listed
China: IECSC	Not Listed
Taiwan	Listed

US information

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

2-Hydroxy-5-methylpyridine is not listed

SARA 302/304 : 2-Hydroxy-5-methylpyridine is not listed

SARA 311/312 : See section 2 for more information



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

California Prop. 65: 2-Hydroxy-5-methylpyridine is not listed
CAA (Clean Air Act): 2-Hydroxy-5-methylpyridine is not listed
CWA (Clean Water Act): 2-Hydroxy-5-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-Hydroxy-5-methylpyridine is not listed

SECTION 16: OTHER INFORMATION

Compilation information of safety data sheet

Chemical: 2-Hydroxy-5-methylpyridine

CAS #: 1003-68-5

File Name: 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Revision Number: 07

Date of Issue of SDS: March 11, 2024

Revision Due Date: February, 2027

(a) 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.



Safety Data Sheet

As per Globally Harmonized System (GHS)

Product Identification: 2-Hydroxy-5-methylpyridine 0769Gj Ghs07 Div.3 sds 2-Hydroxy-5-methylpyridine

Date of issue: March 11, 2024

- 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.
- ADR = Accord européen 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.

(b) 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
- DIR 67/548/EWG, last modification by DIR 2009/2/EC
- REG (EC) no. 1907/2006, last modification by REG (EC) Nr. 453/2009

Internet

- RTECS

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)