



# Safety Data Sheet

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

**Product Identification:** 2-Bromo-5-nitropyridine      0133Gj Ghs10 Div.3 sds 2-Bromo-5-nitropyridine

Date of issue: February 20, 2024

Date of Compilation : September 16, 2013  
Date of Revision : February 20, 2024  
Revision due date : January 2027  
Revision Number : 10  
Version Number : 0133Gj Ghs10 Div.03 sds 2-Bromo-5-nitropyridine  
Supersedes date : January 02, 2024  
Supersedes version : 0133Gj Ghs09 Div.3 sds 2-Bromo-5-nitropyridine



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

**1.1 Product identification:** 2-Bromo-5-nitropyridine; CAS RN; 4487-59-6; EC#; 224-777-2

1.1.1. **Trade name:** 2-Bromo-5-nitropyridine.

1.1.2. **Systematic Name:** 2-Bromo-5-nitropyridine.

1.1.3. **Synonyms:** 5-nitro-2-bromopyridine.

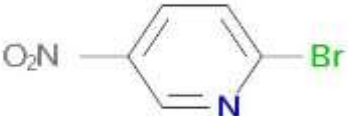
1.1.4. **Other Languages:**

**De :** 2-Bromo-5-nitropyridine

**Es :** 2-bromo-5-nitropiridina

**Fr :** 2-bromo-5-nitropyridine

1.1.5 **Molecular Formula:** C<sub>5</sub>H<sub>3</sub>BrN<sub>2</sub>O<sub>2</sub>

1.1.6. **Structural Formula:** 

**1.2 Identified uses:** 2-Bromo-5-nitropyridine is an organic intermediate and used in pharmaceutical company and in research and development work.

**Uses advised against:** None

**1.3 Company / supplier: *FACTORY ADDRESS:***

Jubilant Ingrevia Limited  
Bhartiagram, Gajraula  
District: Amroha  
Uttar Pradesh-244223, India  
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## 1.4 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

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance

#### GHS CLASSIFICATION

Acute Toxicity (Oral): Category 4 H302

Skin irritation: Category 2 H315

Eye irritation: Category 2 H319

STOT Single exposure: Category 3 H335

#### *Pictograms:*



*GHS 07-Exclamation mark*

*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

- P264: Wash hands, eyes and face thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/clothing and eye/face protection.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P330: Rinse mouth.



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- 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.
- P405: Store locked up.
- P403+233: Store in a well ventilated place. Keep container tightly closed.
- P501: Dispose of contents/container to local/regional/national/international regulations.

## 2.3 Other Hazards

- Harmful to aquatic life with long lasting effects.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance	CAS No.	EINECS No.	Purity	GHS CLASSIFICATION		
				Hazard Classes and categories	Pictograms Signal Words	Hazard Statements
2-Bromo-5-nitropyridine	4487-59-6	224-777-2	≥ 97 %	Acute Toxicity (Oral): Category 4 Skin irritation: Category 2 Eye irritation: Category 2 STOT Single exposure: Category 3	GHS07 	H302 H315 H319 H335

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures.

4.1.1 Route of exposure: inhalation, skin, eye and ingestion.

4.1.2 Advice

- Rinse eyes cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
- Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Remove victim to fresh air and keep at rest in a position comfortable for breathing.



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- Call a POISON CENTER or doctor/physician if you feel unwell.

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

- **Acute effects:**

It is harmful if swallowed., irritating to eyes, skin and respiratory system. It is irritating to mucous membranes and upper respiratory tract. It may causes drowsiness or dizziness. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

- **Chronic effects:**

Chronic Health Effects: Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

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

- **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:** If the victim is not breathing, perform mouth-to-mouth resuscitation. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, oxygen can be administered. Seek medical attention if respiration problems do not improve.
- **Ingestion:** If swallowed call a poison center if you feel unwell. Rinse mouth. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive.

## SECTION 5 :

## FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media.

- *Appropriate extinguishing media:* Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water spray 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 , carbon dioxide and irritating and toxic fumes of bromine.
- High vapor concentration may result in an explosion hazard.
- Vapors are heavier than air. May travel considerable distance from source and flashback.



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## 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.

- 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.



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- 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.
- 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 ventilated place.
- Store away from incompatible materials.
- Keep securely closed when not in use.

### 7.3. Specific end use(s)

- 2-Bromo-5-nitropyridine is an organic intermediate and used in pharmaceutical company and in research and development work.

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1 Exposure Limits Values:

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Bromo-5-nitropyridine	Not established	Not established	Not established

#### 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:



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- 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. The protective gloves to be used must comply with the specifications of EC directives 89/686/EEC and the resultant standard EN374.
- **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.
- 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	Light yellow to yellow crystalline solid
2.	Odor	Odourless
3.	Odor Threshold	Not available
4.	pH	8.0 (2 % aqueous solution)
5.	Melting point/Freezing point	139 to 141 °C
6.	Boiling Point	145 to 147 °C at 10 mmHg
7.	Flash point	No data available (Calculated value: >60 °C)





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8.	Evaporation rate (n-BuAc=1)	Not available
9.	Flammability	Not available
10.	Upper/lower flammability or Explosive limits	Not available
11.	Vapor pressure	0.0043mmHg at 25°C (Estimated)
12.	Vapor density (air=1)	Not available
13.	Density	1.8727 (Estimated)
14.	Solubility	Sparingly soluble in water
15.	Partition coefficient : n-(Octonol / water)	1.51(Estimated)
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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

- 2-Bromo-5-nitropyridine is light yellow to yellow crystalline odorless solid. It is sparingly soluble in water.

### 10.2. Chemical stability

- Stable under normal recommended storage conditions of temperature and pressure. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place.

### 10.3. Possibility of hazardous reactions

- Hazardous Polymerization: Not reported.

### 10.4. Conditions to avoid



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- Keep away from High temperature, mechanical shock, incompatible materials, ignition sources, and moisture. Store in tightly closed containers in a well ventilated area away from heat, flame and sparks.

## 10.5. Incompatible materials

- Strong oxidizing agents.

## 10.6. Hazardous decomposition products

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

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### a) *Acute toxicity*

- It is irritating to eyes and skin and respiratory system. It is irritating to mucous membranes and upper respiratory tract. It may causes drowsiness or dizziness. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

**RTECS#:** Unlisted

**LD50(Oral) Rat:** 979.51 mg/kg (Predicted Oral rat LD50 from Consensus method-USEPA tool)

#### b) *Skin corrosion/irritation*

- Causes skin irritation.

#### c) *Serious eye damage/irritation*

- Causes eye irritation.

#### d) *Respiratory or skin sensitization*

- No data 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.
- No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA, or ACGIH.

#### g) *Reproductive toxicity*

- According to the information presently available 2-Bromo-5-nitropyridine has not been tested for its ability to affect reproduction.

#### h) *STOT-single exposure*

- Causes irritation to respiratory system.

#### i) *STOT- repeated exposure*

- No data available.



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## j) Aspiration Hazards

- No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1 Ecotoxicity:

- Fathead minnow LC50 (96 hr): 37.69 mg/L (Predicted Fathead minnow LC50 (96 hr) from Consensus method)
- Daphnia magna LC50 (48 hr): 49.88 mg/L (Predicted Daphnia magna LC50 (48 hr) from Consensus method)
- Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

- It has estimated that 2-Bromo-5-nitropyridine 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, 120 days, exceeds the EPA criteria of  $\geq 2$  months (and  $\leq 6$  months). Therefore, 2-Bromo-5-nitropyridine is estimated to be persistent in the environment.

#### 12.3. Bio accumulative potential

- BCF=4.6 (Estimated ).
  - Log Kow = 1.51 (Estimated)
- The estimated bioconcentration factor (BCF=4.6) for 2-Bromo-5-nitropyridine, does not exceed the EPA bioconcentration criteria. It has estimates that 2-Bromo-5-nitropyridine is not expected to bioaccumulate in the food chain because it does not exceed the BCF criteria.

#### 12.4. Mobility in soil (Estimated)

- Log Koc= 2.16 (Estimated ).
- Henry's Law Constant: 1.11E-008 atm-m<sup>3</sup>/mole (Estimated).
- Log Kow = 1.51

#### 12.5. Results of PBT and vPvB assessment

- The substance is very persistence in 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 and persistent in the environment. It has not expected to bioaccumulate in the food chain. 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



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## 13.1. Waste treatment methods

- 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

- It is considered to be Non Hazardous for Transport by Road/Rail/Sea/Air and not regulated by ADR/RID/IMDG/IATA.

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.

### 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 toxicity(Oral).Cat 4, Skin Irrit.cat.2, Eye irrit.cat.2, STOT SE cat 3
- **Hazard Statements:** H302; H315; H319; H335

#### US information

- CAS# 4487-59-6 is not listed on the TSCA inventory.

EPA



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- CAS# 4487-59-6 is not listed on the EPA inventory. This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on an MSDS sheet.

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

**WHIMS Canada – DSL/NDSL**

- CAS# 4487-59-6 is not listed in DSL/NDSL.

## SECTION 16: OTHER INFORMATION

### (a) Compilation information of safety data sheet

**Chemical:** 2-Bromo-5-nitropyridine

**CAS #:** 4487-59-6

**File Name:** 0133Gj Ghs10 Div.3 sds 2-Bromo-5-nitropyridine

**Revision Number:** 10

**Date of Issue of SDS:** February 20, 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



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

### (d) List of Hazard statements and precautionary statements.

<b>Hazards Statements</b>	<ul style="list-style-type: none"><li>• H302: Harmful if swallowed.</li><li>• H315: Causes skin irritation.</li><li>• H319: Causes serious eye irritation.</li><li>• H335: May cause respiratory irritation.</li></ul>
<b>Precautionary Statements</b>	<ul style="list-style-type: none"><li>• P264; P270; P280; P271; P261; P301+P312; P302+352; P330; P332+313; P362; P305+351+338; P337+P313:P304+340:P312: P403+233: P405: P501</li></ul>

### 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



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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)

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