



## **3-Bromo-4-methylaniline**

### **Safety Data Sheet**

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

Date of Compilation	: April 03, 2024
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## 3-Bromo-4-methylaniline

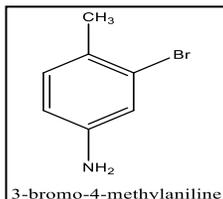
### Safety Data Sheet

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

##### 1.1. Product identifier

PRODUCT NAME : **3-Bromo-4-methylaniline**  
 CAS RN : 7745-91-7  
 EC# : 231-807-8  
 SYNONYMS : 3-Bromo-4-methylbenzenamine, 4-Amino-2-bromotoluene, 3-bromo-p-toluidine  
 TECHNICAL NAME : 3-Bromo-4-methylaniline  
 MOLECULAR FORMULA : C<sub>7</sub>H<sub>8</sub>BrN  
 STRUCTURAL FORMULA :



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

###### 1.2.1. Relevant identified uses

Used as an intermediate for phase 2 product.

**Uses advised against:** None

##### 1.3. 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](mailto:support@jubl.com) - [www.jubilantingrevia.com](http://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 Classification

Acute toxicity, Oral (Category 3)	H301	Toxic if swallowed
Skin 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

##### 2.2. Label Elements

###### GHS Classification

Hazard Pictogram: GHS 06



GHS 06: Skull & Crossbones

**Signal Word:** Danger!

##### HAZARD AND PRECAUTIONARY STATEMENTS:

###### HAZARD STATEMENTS

- H301: Toxic if swallowed
- H315: Causes skin irritation
- H319: Causes serious eye irritation.



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- H335: May cause respiratory irritation

#### PRECAUTIONARY STATEMENTS

- P264: Wash clothes thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves/protective clothing.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271: Use only outdoors or in well-ventilated area
- P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician.
- P330: Rinse mouth
- P302+P352: If on skin : wash with plenty of soap and water
- P312: Call a poison center or doctor/physician if you feel unwell.
- P362: Take off contaminated clothing and wash before reuse.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- 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.
- P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P403+P233: Store in well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- P501: Dispose of contents/container to local/regional/national/international regulations.

#### 2.3 Other Hazards

- Not available. For further details see section 12.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

S.No.	Chemical	CAS #	EC#	% Composition
1	3-Bromo-4-methylaniline	7745-91-7	231-807-8	>98%

#### SECTION 4: FIRST AID MEASURES

##### Description of first aid measures

##### Key symptoms

##### Acute effects:

- The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

##### Chronic effects:

- To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

##### 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 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. Call a physician if you feel unwell. Monitor for respiratory distress. Apply artificial respiration if not breathing. Do not use mouth-to-mouth methods if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- **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

##### 5.1. Extinguishing media



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- *Appropriate extinguishing media:* Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may be ineffective. Water sprays 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 Hydrogen bromide gas.
- 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)
- Chemical is water-soluble. Report any run-off of firewaters 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.
- Use non-sparking tools.

##### 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

- 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.



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

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parameters

##### Exposure Limits Values

Chemical name	STEL (ppm)	NIOSH	OSHA	ACGIH
3-Bromo-4-methylaniline	None available	None available	None available	None available

##### Exposure Limits (International):

- Not available.

#### 8.2. 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.

#### 8.3. Personal Protection

- **Eye/face 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).
- **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.
- **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:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### General Hygiene and general comments:

- Wash hands and face after working with the substance.
- Under no circumstances eat or drink at the workplace.

### SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Colorless to brown low melting solid
2.	Molecular weight	186.05
3.	Odor	Not Available
4.	Odor Threshold	Not Available
5.	pH	Not Available
6.	Melting point/Freezing point	27-30 °C
7.	Boiling Point	254-257 °C
8.	Flash point	113°C (closed cup)
9.	Evaporation rate (n-BuAc=1)	Not Available
10.	Flammability	Not Available
11.	Upper/lower flammability or Explosive limits	Not Available



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12.	Vapor pressure	0.0138mmHg at 25°C
13.	Vapor density (air=1)	Not Available
14.	Relative density	1.5±0.1 g/cm3
15.	Solubility	Slightly soluble in water, Soluble in MDC, Methanol, Ethyl acetate.
16.	Partition coefficient : n-(Octonol / water)	2.51
17.	Auto-ignition temperature	Not Available
18.	Decomposition temperature	Not Available
19.	Viscosity	Not Applicable
20.	Explosive property	No

#### SECTION 10: STABILITY AND REACTIVITY

- **Reactivity:** No data available
- **Chemical Stability:** Stable under recommended storage conditions.
- **Conditions to avoid:** No data available
- **Incompatible chemicals:** Strong oxidizing agents.
- **Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen bromide gas.
- **Possibility of hazardous reactons:** No data available

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### 11.1. Information on toxicological effects

###### Acute toxicity

- Toxic if swallowed.

**RTECS#:** XU4375000

**LD50:** LD50 Oral - Rat - 180 mg/kg (3-Bromo-4-methylaniline)

Skin corrosion/irritation	:	Causes skin irritation
Eye damage/irritation	:	Causes serious eye irritation
Respiratory or skin sensitization	:	No data available
Germ cell Mutagenicity	:	No data Available
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 3-Bromo-4-methylaniline has not been tested for its ability to affect reproduction.
STOT-single exposure	:	Inhalation - May cause respiratory irritation.
STOT- repeated exposure	:	No data available.
Aspiration Hazards	:	No data available.

#### SECTION 12: ECOLOGICAL INFORMATION

##### 12.1. Toxicity

- Do not empty into drains. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea



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3-Bromo-p-toluidine	Not listed	Not listed	EC50 = 0.33 mg/L 5 min EC50 = 0.35 mg/L 15 min EC50 = 0.41 mg/L 30 min	Not Listed
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#### 12.2. Persistence and degradability

- Suspected persistent in the environment.

#### 12.3. Bio accumulative potential

<b>3-Bromo-4-methylaniline (7745-91-7)</b>	
Log Kow	2.51

#### 12.4. Mobility in soil

- No data available.

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

- No data available

### 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 reinstates.

#### Contaminated packaging

- 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 IATA/ICAO/ARD/RID/IMO/IMDG.

ADR/ RID	IMDG	IATA
<b>14.1. UN number</b>		
2811	2811	2811
<b>14.2. UN proper shipping name</b>		
TOXIC SOLID, ORGANIC, N.O.S. (3-Bromo-4-methylaniline)	TOXIC SOLID, ORGANIC, N.O.S. (3-Bromo-4-methylaniline)	Toxic solid, organic, n.o.s. (3-Bromo-4-methylaniline)
<b>14.3. Transport hazard class(es)</b>		
6.1	6.1	6.1
<b>14.4. Packing group</b>		
III	III	III
<b>14.5. Environmental hazards</b>		
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 GHS HazCom 2012:

- Hazards Class and Category:** Acute toxicity, Oral (Category 3), Skin irritation (Category 2) Eye irritation (Category 2), STOT-Single exposure (Category 3).
- Hazard Statements:** H301, H315, H319, H335

<b>Chemical Inventory Lists:</b>	<b>Status</b>
TSCA:	Not listed



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EC/ List No.	231-807-8
Canada(DSL/NDSL):	listed

#### US information

- **TSCA**  
CAS# 7745-91-7 is not listed on the TSCA inventory.
- **Clean Air Act:**  
This material does not contain any hazardous air pollutants.  
This material does not contain any Class 1 Ozone depleters.  
This material does not contain any Class 2 Ozone depleters.
- **Clean Water Act:**  
None of the chemicals in this product are listed as Hazardous Substances under the CWA.  
None of the chemicals in this product are listed as Priority Pollutants under the CWA.  
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- **CANADA-DSL/NDSL**  
The substance is specified in DSL/NDSL.
- **OSHA:**  
None of the chemicals in this product are considered highly hazardous by OSHA.
- **STATE**  
CAS# 7745-91-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- **California Prop 65**  
The substance is not specified in California No Significant Risk Level.

#### SECTION 16: OTHER INFORMATION

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

Date of compilation	: April 03, 2024
Chemical	: 3-Bromo-4-methylaniline
CAS #	: 7745-91-7
File Name	: 0843Gj Ghs00 Div.3 sds 3-Bromo-4-methylaniline
Revision Number	: 00
Date of Issue of SDS	: April 03, 2024
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Supersedes date	: Not applicable
Supersedes version	: Not applicable

##### 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/NDSL= Domestic/Non-Domestic Substances List.
- BCF = Bio Concentration Factor.
- TLV = Threshold Limit Value.



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- 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"><li>• H301: Toxic if swallowed</li><li>• H315: Causes skin irritation</li><li>• H319: Causes serious eye irritation.</li><li>• H335: May cause respiratory irritation</li></ul>

#### SDS EU (REACH Annex II)

*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)