



Safety Data Sheet

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

Product Identification: N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine 0766Gj Ghs00 Div.03 sds N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine

Date of issue: April 04, 2024

Date of Compilation : April 21, 2015

Date of Revision : April 04, 2024

Revision Number : 00

Version Number : 0766Gj Ghs00 Div.03 sds N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine

Supersedes date : February 26, 2021

Supersedes version : 0766Gj Clp02 Div.03 sds N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine



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

1.1 Product identification : N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine; CAS RN: 152460-10-1; EC#: NA

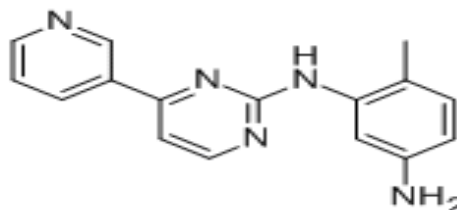
1.1.1. Systematic Name : N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine

1.1.2. Synonyms : 4-methyl-3-[4-(3-pyridyl)pyrimidin-2-ylamino]aniline
4-Methyl-N'-[4-(pyridin-3-yl)pyrimidin-2-yl]benzene-1,3-diamine
n-(5-amino-2-methylphenyl)-4-(3-pyridyl)-2-pyrimidineamine
N-(2-Methyl-5-Amino Phenyl)-4-(3-Pyridyl)-2-Pyrimidine
4-Methyl-N3-[4-(3-Pyridinyl)-2-Pyrimidinyl]-1,3-Benzenediamine
N-(5-amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidineamine
1,3-BENZENEDIAMINE,4-METHYL-N3-[4-(3-PYRIDINYL)-2-PYRIMIDINYL]-
6-Methyl-n1-[4-(pyridine-3-yl)pyrimidin-2-yl]benzene-1,3-diamine
N-(5-Amino-2-methyl phenyl)-4-(3-pyridyl)-2-pyrimidineamine
N-(5-amino-2-methylphenyl)-4-(3-pyridyl)-2-pyrimidine-amine

1.1.3. Other Languages: **De:** N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamin
Es: N-(5-amino-2-metilfenil)-4-(3-piridinil)-2-pirimidinamina
Fr: N-(5-amino-2-méthylphényl)-4-(3-pyridinyl)-2-pyrimidinamine

1.1.4 Molecular Formula: C₁₆H₁₅N₅

1.1.5. Structural Formula:



Identified uses: N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine is an advance intermediate and used in pharmaceutical industries and in research and development work.



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1.2 Uses advised against: None

1.3 Company / supplier: FACTORY ADDRESS :

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

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

2.1.1. Classification according to regulation(EC) 1272/2008

Acute Toxicity oral: Category 4	H302
Skin corrosion / irritant: Category 2	H315
Serious eye damage/eye irritation: Category 2	H319
Organ toxicity: Category 3 (After single exposure)	H335

2.2 Label elements according to regulation (EC) 1272/2008



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Pictograms:



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/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.

Response

- 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.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330: Rinse mouth.



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Storage

- P403+233: 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.

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	Classification acc. to reg.(EC) no. 1272/2008		
				Hazard Classes and categories	Pictograms Signal Words	Hazard Statements
N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine	152460-10-1	Not available	> 99 %	Acute Toxicity oral: Category 4 Skin corrosion / irritant: Category 2 Serious eye damage/eye irritation: Category 2 Organ toxicity: Category 3 (After single exposure)	GHS07 	H302 H315 H319 H335

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures.

4.1.1 *Route of exposure:* Eye, skin, inhalation and ingestion.

Key symptoms

- **Acute effects:**
N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine is harmful if swallowed and is irritating to skin and respiratory system. It causes serious eye irritation. It is irritating to mucous membranes and upper respiratory tract, it may cause irritation of the digestive tract system if swallowed. It may causes



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drowsiness or dizziness. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.

- **Chronic effects:**

Repeated or prolonged exposure to this compound is not known to aggravate existing medical conditions.

4.1.2 FIRST AID:

- **Eyes:** If in eyes rinse cautiously with water for at least 15 minutes. 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.
- **Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult give oxygen. 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

5.1. Extinguishing media.

- *Appropriate extinguishing media:* Dry chemical powder, carbon dioxide, and alcohol resistant foam. Do not use water jet or fog (spray) to extinguish. 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 Protective Equipment and Precautions for Fire Fighter:

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

5.3. Unusual fire and explosion hazard:

- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and carbon dioxide 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.



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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1 Minor Spills

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.
- Use non-sparking tools.

6.1.2 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.
- Stop leaks if possible.
- 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.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.

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.



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6.3. Methods and material for containment and cleaning up.

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

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 well ventilated place. Keep away from heat, flame and sparks.
- Store in a flame proof area.
- Store away from incompatible materials.
- Keep only in original container.
- Keep securely closed when not in use.

7.3. Specific end use(s)

- N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine is an advance intermediate and used in pharmaceutical industries and in research and development work.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

8.1.1 Exposure Limits Values

Chemical name	STEL (ppm)	NIOSH	ACGIH	OSHA
N-(5-Amino-2-methylphenyl)-4-(3-	None listed	None listed	None listed	None listed



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pyridinyl)-2-pyrimidinamine				
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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. 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.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

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Sr.No.	Parameter	Typical value
1.	Appearance	Yellow Solid
2.	Odor	Characteristic
3.	Odor Threshold	Not available
4.	pH(16g/l water @200C)	7-8
5.	Melting point/Freezing point	133-135 °C
6.	Boiling Point	537.3±60.0 °C at Press: 760 Torr
7.	Flash point	278.8±32.9 °C
8.	Evaporation rate (n-BuAc=1)	Not available
9.	Flammability	Non Flammable
10.	Upper/lower flammability or Explosive limits	Not available
11.	Vapor pressure	1.29E-11 Torr at Temp: 25 °C
12.	Henry's constant	Not available
13.	Relative density	Not available
14.	Solubility	Soluble in DMSO and Methanol
15.	Partition coefficient : n-(Octonol / water)	Not available
16.	Koc	1.68 at pH 1 at Temp: 25 °C
17.	Decomposition temperature	Not available
18.	Solubility in water	Partially soluble



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19.	Explosive property	Not available
20.	Oxidizing property	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Stability: Stable under specified condition of temperature and pressures.

10.2. Conditions to avoid: Incompatible materials, ignition sources, excess heat, flames and sparks, strong oxidants.

10.3. Incompatible chemicals: Strong oxidizing agents.

10.4. Hazardous decomposition: Thermal decomposition may produce carbon monoxide, carbon dioxides, oxides of nitrogen, irritating & toxic fumes.

10.5 Hazardous Polymerization: Has not been reported.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

a) *Acute toxicity*

- It is harmful if swallowed. It causes skin irritating and serious eyes irritation. It may cause respiratory irritation. It is irritating to mucous membranes and upper respiratory tract. It may causes drowsiness or dizziness.

RTECS#: Unlisted

b) *Skin corrosion/irritation*

- Causes skin irritation.

c) *Serious eye damage/irritation*

- Causes serious eye irritation.

d) *Respiratory or skin sensitization*

- May cause irritation to respiratory system.

e) *Germ cell Mutagenicity*

- No data is available.

f) *Carcinogenicity*



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- No data available
- g) **Reproductive toxicity**
 - No data available.
- h) **STOT-single exposure**
 - No data available.
- i) **STOT- repeated exposure**
 - No data available.
- j) **Aspiration Hazards**
 - No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity :

12.1. Ecotoxicity (Estimated)

- Not available

12.2. Persistence and degradability

- Not available

12.3. Bio accumulative potential

- Not available

12.4. Mobility in soil

- Not available

12.5. Other adverse effects.

- **Environment Fate:**

Since the data on environment is not available, therefore, the material should be disposed off in accordance with local ,state and federal regulations.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Exert extra care in igniting, as this material is flammable.
- 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



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- 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

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 Cat4 , Skin Irrit Cat. 2 ;Eye Irrit Cat 2 ; STOT SE Cat.3
- **Hazard Statements:** H302; H315;H319;H335

US FEDERAL

- CAS# 19478-81-0 is not listed on the TSCA inventory.

CANADA

- **DSL/NDSL:-**The substance is not specified in the NDSL List.

SECTION 16: OTHER INFORMATION

(a) Compilation information of safety data sheet

Chemical: N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine.

CAS #: 152460-10-1

File Name: 0766Gj Ghs00 Div.03 sds N-(5-Amino-2-methylphenyl)-4-(3-pyridinyl)-2-pyrimidinamine.

Revision Number: 00

Date of Issue of SDS: April 04, 2024

Revision Due Date: March, 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.



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- 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.
- 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

Internet



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- RTECS
- ESIS

(d) List of Risk Phrases, Hazard statements, safety Phrases and/or precautionary statements.

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

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)