



# 5-Methylnicotinic acid

## Safety Data Sheet

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

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# 5-Methylnicotinic acid

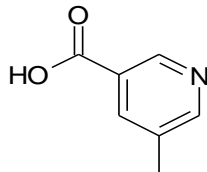
## Safety Data Sheet

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

#### 1.1. Identification

PRODUCT NAME	:	5-Methylnicotinic acid
CAS RN	:	3222-49-9
EC#	:	608-720-2
SYNONYMS	:	5-Methylpyridine-3-carboxylic acid
MOLECULAR FORMULA	:	C7H7NO2
STRUCTURAL FORMULA	:	



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

##### 1.2.1. Relevant identified uses

5-Methylnicotinic acid is used as an intermediate in the pharmaceutical industry.

**Uses advised against:** None

#### 1.3. Details of the supplier of the safety data sheet

##### Jubilant Ingrevia Limited

**FACTORY 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-US classification

Skin corrosion / irritation : Category 2

Serious eye damage/eye irritation - Category 2B

#### 2.2. Label Elements

**Hazard Pictogram:** Hazard Pictogram: GHS 07

**Signal Word:** Warning!



#### **HAZARD AND PRECAUTIONARY STATEMENTS:**

##### HAZARD STATEMENTS

- H315: Causes skin irritation.
- H319: Causes serious eye irritation

##### PRECAUTIONARY STATEMENTS

- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: 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+313: If eye irritation persists: Get medical advice/attention
- P501: Dispose of contents/container to local/regional/national/international regulations



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### 2.3. Other Hazards

No information available

### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical	CAS #	EC Number	% Composition	GHS-US classification
5-Methylnicotinic acid	3222-49-9	608-720-2	99 %	Skin corrosion / irritation : Category 2 Serious eye damage/eye irritation - Category 2B

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

- Remove affected person from danger area. Do not leave affected persons unsupervised. Seek medical treatment. First aid personnel should pay attention to their own safety. Take off all contaminated clothing immediately
- **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.
- **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

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

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

- No data available

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

- Water Spray, Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. Water sprays can be effective in cooling down the fire-exposed containers and knocking down the vapors.

#### 5.2. Special hazards arising from the substance or mixture

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

#### 5.4. Further information

- No data available

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

- Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
- Avoid dust formation. Avoid breathing vapors, mist or gas.
- Keep away from sources of ignition and heat- No smoking.
- Avoid contact with skin and eyes.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off source of leak if safe to do so.



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### 6.2. Environmental precautions

- Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.

### 6.3. Methods and materials for containment and cleaning up

- Wipe up spillage or collect spillage using a high-efficiency vacuum cleaner. Avoid breathing dust.
- Place spillage in appropriately labeled container for disposal. Wash spill site.
- 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.

### 6.4. Reference to other sections

- For disposal see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- Avoid contact with incompatible materials.
- Provide appropriate exhaust/ventilation at machinery
- Avoid contact with skin, eyes, and personal clothing.
- Wash hands thoroughly after handling.
- Do not breathe dust, vapor or mist
- Use only with adequate ventilation.
- Wear suitable protective clothing, gloves, and eye/face protection.
- Keep away from sources of ignition.
- Minimize dust generation and accumulation.
- Keep container tightly closed.
- Open and handle container with care.
- Do not eat, drink, or smoke while handling.
- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Handle in accordance with good industrial hygiene and safety procedures. Avoid Prolonged or repeated exposure. Take precautionary measures against electrostatic discharge

### 7.2 Conditions for safe storage, including any incompatibilities

- Store at ambient temperature in a dry and well-ventilated place.
- Keep container tightly closed when not in use.
- Keep away from all heat sources, including direct sun-light, open flame, source of ignition, sparks etc.

### 7.3 Specific end use(s)

- Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

- **Exposure Limits Values**

Chemical name	STEL (ppm)	NIOSH	ACGIH	OSHA
5-Methylnicotinic acid	None listed	None listed	None listed	None listed

### 8.2 Exposure controls

#### Appropriate engineering controls

- General industrial hygiene practice.

#### Personal protective equipment

- **Hand Protection:** Wear suitable gloves resistant to chemical penetration
- **Eye Protection:** Chemical safety goggles
- **Body Protection:** Wear suitable protective clothing.
- **Respiratory protection:** Where respirators are deemed necessary to reduce or control occupational exposure, use NIOSH-approved respiratory protection and have an effective respirator program in place.

#### Additional Information

- Only use protective equipment in accordance with national/international regulations. Follow the national regulation about wearing personal protective equipment and the warranty given.



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- Exposure may occur during manufacture, transportation and industrial use. The likely primary routes of human exposure to 5-methylnicotinic acid are skin contact and inhalation at the work place.
- Worker exposure is limited by enclosed systems, industrial hygiene controls and personal protective measures (protective gloves, safety glasses with side-shields, respiratory protection if ventilation is inadequate).

### Control of environmental exposure

- Do not let product enter drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Sr.No.	Parameter	Typical value
1	Appearance	Off white solid powder
2	Odor	Not available
3	Odour Threshold	Not available
4	pH	3.1 @ 25 deg C
5	Melting point	207 - 215 °C
6	Boiling point	274.26 °C
7	Flash point	137.6°C
8	Evaporation rate (n-BuAc=1)	Not available
9	Explosive limits	Not available
10	Vapor pressure	0.328 Pa at 25°C
11	Solubility	03215.8 mg/L at 25°C in water
12	Log Kow (octanol/water)	1.23 (estimated)
13	Auto-ignition temperature	Not available
14	Particle retention on mesh 20 ASTM /18 BSS (%w/w)	Not available
15	Viscosity	Not available
16	Molecular Weight	137.14
17	PKa (@25°C)	Not available
18	Log Koc	Not available
19	Flammable material	Not Flammable
21	Corrosive material	No
22	Explosive material	No

### 9.2 Other safety information

- No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- 5-Methylnicotinic acid is an off white powder. It is freely soluble in water.

### 10.2 Chemical stability

- Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

- **Hazardous Polymerization:** Not reported.

### 10.4 Conditions to avoid

- Exposure to High temperature, mechanical shock, incompatible materials, flames, sparks, heat and moisture.

### 10.5 Incompatible materials

- Strong oxidizing and reducing agents, Strong acids, Strong bases, chlorates, nitrates.

### 10.6 Hazardous decomposition products

- **Other decomposition products** - Thermal decomposition may produce nitrogen oxides, carbon dioxide and carbon monoxide.
- In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### RTECS:

LD 50/LC 50 – No data available

Acute toxicity

: No data available



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Skin corrosion/irritation	: Causes skin irritation
Serious eye damage/eye irritation	: Causes eye irritation
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: Not listed by NTP, IARC and OSHA. Not present on the EU CMR list. According to information presently available 5-Methylnicotinic acid is not found to be carcinogenic
Specific target organ toxicity - single exposure	: Not available
Specific target organ toxicity - repeated exposure	: Not available
Aspiration hazard	: Not available

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

##### Ecotoxicity:

- Fathead minnow LC<sub>50</sub> (96 hr): 212 mg/L. (Predicted Fathead minnow LC<sub>50</sub> (96 hr) from Consensus method)
- Fish ChV (Estimated) = 610 (mg/l). Non-toxic and no effect on saturation.

#### 12.2 Persistence and degradability

- It is expected to be biodegradable under aerobic and anaerobic conditions.

#### 12.3 Bio accumulative potential

5-Methylnicotinic acid (3222-49-9)	
Bio concentration factor	3.162
Log Kow	1.23

#### 12.4 Mobility in soil

5-Methylnicotinic acid (3222-49-9)	
Log koc	1.012 (estimated). Low sorption.
Henry's Law constant	5.48E-011 atm/m <sup>3</sup> mole at 25 degrees. Non- volatile from aqueous bodies. ]
Log Kow	1.23 (estimated). Negligible potential to bioaccumulate.

#### 12.5 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. Since this is an estimated result it is recommended that the material should be disposed into the environment. The material should never be disposed into the sewage.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

- Contact a licensed professional waste disposal service to dispose of this material. Dispose in a safe manner in accordance with local/national regulation. Observe all federal, state and local environmental regulation

### SECTION 14: TRANSPORT INFORMATION

ADR/ RID/ DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>		



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Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<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		

### 14.6 Special precautions for user

- No data available

## SECTION 15: REGULATORY INFORMATION

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

- European Union Information**

Classification as per CLP Regulation 1272/2008:

Skin corrosion/irritant: Category 2

Serious eye damage/eye irritation: Category 2

**Hazard Statements:** H315, H319

Chemical Inventory Lists:	Status
TSCA:	Not listed
EINECS:	Listed
Canada(DSL/NDL):	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):**

5-Methylnicotinic acid is not listed

**SARA 302/304 :** 5-Methylnicotinic acid is not listed

**SARA 311/312 :** See section 2 for more information

**California Prop. 65:** 5-Methylnicotinic acid is not listed

**CAA (Clean Air Act):** 5-Methylnicotinic acid is not listed

**CWA (Clean Water Act):** 5-Methylnicotinic acid is not listed

### EU Information

**Water hazard class (WGK):** WGK 3 (Severely hazardous to water)

**Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006:** 5-Methylnicotinic acid is not listed

## SECTION 16: OTHER INFORMATION

### a) Compilation information of safety data sheet

Date of compilation : 18-11-2013  
Chemical : 5-Methylnicotinic acid  
CAS # : 3222-49-9  
File Name : 0476Gj Ghs06 Div.3 sds 5-Methylnicotinic acid  
Revision Number : 06



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

- 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.
- RTECS= Registry of Toxic Effects of Chemical Substances.
- NTP=National Toxicology Program.
- IARC= International Agency for Research on Cancer.
- CLP=Classification, Labeling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonized System.
- ADR = Accord European relative au transport international de marchandises.
- US DOT = United States Department of Transportation.
- IMDG-Code = International Maritime Code for Dangerous Goods.
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation

### SDS US (GHS HazCom 2012)

*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)