



# Zinc Picolinate

## Safety Data Sheet

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

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# Zinc Picolinate

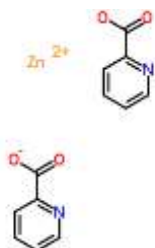
## Safety Data Sheet

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

#### 1.1. Identification

PRODUCT NAME	: Zinc Picolinate
CAS RN	: 17949-65-4
EC#	: 605-860-6
SYNONYMS	: Zinc di (2-pyridinecarboxylate)
MOLECULAR FORMULA	: C <sub>12</sub> H <sub>8</sub> N <sub>2</sub> O <sub>4</sub> Zn
STRUCTURAL FORMULA	:



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

##### 1.2.1. Relevant identified uses

Zinc picolinate is a type of zinc supplement that supports absorption. It is also used for boosting the immune system.

**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-US classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2. Label Elements

**Hazard Pictogram:** Not classified.

**Signal Word:** Not classified.

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

##### HAZARD STATEMENTS

- Not classified.

##### PRECAUTIONARY STATEMENTS

- Not classified.



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### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical	CAS #	EC Number	% Composition
Zinc Picolinate	17949-65-4	605-860-6	~100

### 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.
- **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

##### Acute Toxicity

- Not expected to be irritating to skin or eyes. Not toxic by oral, dermal or inhalation routes. Not a sensitizer.

##### Chronic Toxicity

- 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

- No data available

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

- Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used.

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

- When heated to decomposition it may emit toxic vapors of nitrogen oxides, carbon monoxide and carbon dioxide.

#### 5.3. Advice for firefighters

- Wear full protective clothing; wear self-contained breathing apparatus (SCBA) in fire situations. Avoid unnecessary run-off of extinguishing media, which may cause pollution.

#### 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.
- 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.

#### 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



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- Handle in accordance with good industrial hygiene and safety procedures. Avoid Prolonged or repeated exposure. Take precautionary measures against electrostatic discharge.
- Material should be handled in a laboratory hood whenever against fire and explosion possible.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke

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

- Store at ambient temperature.
- Keep container tightly closed in a dry and well-ventilated place.

### 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**

Country	Occupational Exposure Limit
Canada - Quebec, Singapore, S. Korea	10 mg/m <sup>3</sup> as an 8-hour time-weighted average
Belgium, New Zealand	10 mg/cubic meter (inhalable); 3 mg/cubic meter (respirable fraction)
US OSHA	15 mg/cubic meter (total dust); 5 mg/cubic meter (respirable fraction)

- Air Monitoring Method: Gravimetric analysis for total particulate and respirable fraction (<10 microns)

### 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.
- Exposure may occur during manufacture, transportation and industrial use. The likely primary routes of human exposure to Zinc Picolinate 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	White to off-white powder
2	Odor	Odourless
3	Odour Threshold	Not applicable
4	pH	2 to 2.5
5	Melting point	446 - 473 °F
6	Boiling point	No data available
7	Flash point	267.2 °F (130.7 °C) TCC
8	Evaporation rate (n-BuAc=1)	No data available
9	Relative density	0.5-0.6 g/mL
9	Explosive limits	No data available



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10	Vapor pressure	0.000836 mm/Hg @ 25.00 °C. (est)
11	Solubility	Insoluble at 25-30 °C
12	Log Kow (octanol/water)	-0.098
13	Auto-ignition temperature	No data available
14	Viscosity	Not applicable
15	Molecular Weight	309.6 g/mol
16	PKa (@25°C)	No data available
17	Log Koc	No data available
18	Flammable material	No
19	Corrosive material	No
20	Explosive material	No

### 9.2 Other safety information

- No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- Not classified as dangerously reactive.

### 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 moisture and heat. There are no known unusual fire or explosion hazards associated with this material.

### 10.5 Incompatible materials

- Strong oxidizing agents.

### 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: Not available

LD 50: Not available

**Acute toxicity:** 3731 mg/kg (rat) (Picolinic acid)

Skin corrosion/irritation	:	Non-irritating to skin.
Serious eye damage/eye irritation	:	Non-irritating to eyes.
Respiratory or skin sensitization	:	Not a sensitizer
Germ cell mutagenicity	:	Picolinic acid was negative in Ames mutagenesis assay.
Carcinogenicity	:	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	:	Limited data availability; no evidence
Specific target organ toxicity - single exposure	:	No data available
Specific target organ toxicity - repeated exposure	:	No data available
Aspiration hazard	:	No data available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

- May cause long lasting harmful effects to aquatic life.

### 12.2 Persistence and degradability

- No data available.



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### 12.3 Bio accumulative potential

Zinc Picolinate (17949-65-4)	
Bio concentration factor	Not available
Log Kow	Not available

### 12.4 Mobility in soil

Zinc Picolinate (17949-65-4)	
Log koc	Not available
Henry's Law constant	Not available
Log Kow	Not available

## 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

TDG/ US DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.2. UN proper shipping name</b>		
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

#### Classification as per CLP Regulation 1272/2008:

- Hazards Class and Category:** Not classified.
- Hazard Statements:** Not classified

Chemical Inventory Lists:	Status
TSCA:	Not listed
EC/ List No.	Listed (605-860-6)
Canada(DSL/NDL):	Not listed
Korea:	Not listed
Australia:	Not listed
Taiwan	Not listed
New Zealand	Listed (NZIoC)
Philippines	Not listed
China: IECSC	Not listed



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### US information

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):** Zinc Picolinate is not listed

**SARA 302/304 :** Zinc Picolinate is not listed

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

**California Prop. 65:** Zinc Picolinate is not listed

**CAA (Clean Air Act):** Zinc Picolinate is not listed

**CWA (Clean Water Act):** Zinc Picolinate 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:** Zinc Picolinate is not listed

### SECTION 16: OTHER INFORMATION

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

Date of compilation	: July 21, 2017
Chemical	: Zinc Picolinate
CAS #	: 17949-65-4
File Name	: 0831Gj Ghs06 Div.3 sds Zinc Picolinate
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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.
- 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)