

# SAFETY DATA SHEET

Creation Date 08-Nov-2010

Revision Date 18-Dec-2025

Revision Number 6

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

**Product Name** Isonicotinic acid

**Cat No. :** AC122590000; AC122590025; AC122590050; AC122591000; AC122595000

**CAS No** 55-22-1  
**Synonyms** 4-Pyridinecarboxylic acid

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.

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

#### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11

Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99

**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### Classification

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

|  |            |
|--|------------|
| Skin Corrosion/Irritation                        | Category 2 |
| Serious Eye Damage/Eye Irritation                | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Target Organs - Respiratory system.              |            |

### Label Elements

#### **Signal Word**

Warning

#### **Hazard Statements**

Causes skin irritation  
Causes serious eye irritation  
May cause respiratory irritation

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If eye irritation persists: Get medical advice/attention

**Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None identified

**Hazards classified under paragraph (d)(1)(ii) of 1910.1200**

No information available

### 3. Composition/information on Ingredients

| Component         | CAS No  | Weight % |
|-------------------|---------|----------|
| Isonicotinic acid | 55-22-1 | >95      |

### 4. First-aid measures

**General Advice**

If symptoms persist, call a physician.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

**Skin Contact**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**Inhalation**

Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

|  |                              |
|--|------------------------------|
| <b>Most important symptoms and effects</b> | None reasonably foreseeable. |
| <b>Notes to Physician</b>                  | Treat symptomatically        |

## 5. Fire-fighting measures

|   |   |
|---|---|
| <b>Suitable Extinguishing Media</b>     | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Unsuitable Extinguishing Media</b>   | No information available  |
| <b>Flash Point</b>                      | No information available  |
| <b>Method -</b>                         | No information available  |
| <b>Autoignition Temperature</b>         | Not applicable  |
| <b>Explosion Limits</b>                 |   |
| <b>Upper</b>                            | No data available   |
| <b>Lower</b>                            | No data available   |
| <b>Sensitivity to Mechanical Impact</b> | No information available  |
| <b>Sensitivity to Static Discharge</b>  | No information available  |

### Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

### Hazardous Combustion Products

Nitrogen oxides (NO<sub>x</sub>). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### NFPA

**Health**  
2

**Flammability**  
1

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

|   |  |
|---|--|
| <b>Personal Precautions</b>                 | Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.            |
| <b>Environmental Precautions</b>            | Should not be released into the environment. See Section 12 for additional Ecological Information.           |
| <b>Methods for Containment and Clean Up</b> | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. |

## 7. Handling and Storage

|                 |   |
|-----------------|---|
| <b>Handling</b> | Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| <b>Storage.</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong reducing agents.                                   |

## 8. Exposure controls / personal protection

|                            |  |
|----------------------------|--|
| <b>Exposure Guidelines</b> | This product does not contain any hazardous materials with occupational exposure limit established by the region specific regulatory bodies. |
|----------------------------|--|

|                             |   |
|-----------------------------|---|
| <b>Engineering Measures</b> | Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations |
|-----------------------------|---|

and safety showers are close to the workstation location.

### Personal Protective Equipment

|                                 |  |
|---------------------------------|--|
| <b>Eye/face Protection</b>      | Tight sealing safety goggles.  |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.  |
| <b>Respiratory Protection</b>   | Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions. |
| <b>Recommended Filter type:</b> | Particulates filter conforming to EN 143.  |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.   |

## 9. Physical and chemical properties

### Appearance

|                                 |                             |
|---------------------------------|-----------------------------|
| <b>Physical State</b>           | Powder Solid                |
| <b>Color</b>                    | Light cream                 |
| <b>Odor</b>                     | No information available    |
| <b>Odor Threshold</b>           | No information available    |
| <b>Property</b>                 | <b>Values</b>               |
| <b>Melting Point/Range</b>      | 310 - 315 °C / 590 - 599 °F |
| <b>Softening Point</b>          | No data available           |
| <b>Boiling Point/Range</b>      | 260 °C / 500 °F             |
| <b>Flash Point</b>              | No information available    |
| <b>Flammability (liquid)</b>    | Not applicable              |
| <b>Flammability (solid,gas)</b> | No information available    |
| <b>Explosion Limits</b>         | No data available           |

### Remarks

### • Method

|  |                          |                    |
|--|--------------------------|--------------------|
| <b>Autoignition Temperature</b>                | Not applicable           |                    |
| <b>Decomposition Temperature</b>               | No data available        |                    |
| <b>pH</b>                                      | 3.6                      | saturated solution |
| <b>Viscosity</b>                               | Not applicable           | Solid              |
| <b>Water Solubility</b>                        | 5.2 g/l (20°C)           |                    |
| <b>Solubility in other solvents</b>            | No information available |                    |
| <b>Partition Coefficient (n-octanol/water)</b> |                          |                    |
| <b>Component</b>                               | <b>log Pow</b>           |                    |
| Isonicotinic acid                              | 0.32                     |                    |
| <b>Vapor Pressure</b>                          | No data available        |                    |
| <b>Density / Specific Gravity</b>              | No data available        |                    |
| <b>Bulk Density</b>                            | No data available        |                    |
| <b>Vapor Density</b>                           | Not applicable           | Solid              |
| <b>Particle characteristics</b>                | No data available        |                    |

### Other Information

|                          |                        |
|--------------------------|------------------------|
| <b>Molecular Formula</b> | C6 H5 N O2             |
| <b>Molecular Weight</b>  | 123.11                 |
| <b>Evaporation Rate</b>  | Not applicable - Solid |

## 10. Stability and reactivity

|                        |  |
|------------------------|--|
| <b>Reactive Hazard</b> | None known, based on information available   |
| <b>Stability</b>       | Stable under recommended storage conditions. |

|   |   |
|---|---|
| <b>Conditions to Avoid</b>              | Incompatible products. Excess heat. Avoid dust formation.                                   |
| <b>Incompatible Materials</b>           | Strong oxidizing agents, Strong reducing agents   |
| <b>Hazardous Decomposition Products</b> | Nitrogen oxides (NO <sub>x</sub> ), Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ) |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.  |
| <b>Hazardous Reactions</b>              | None under normal processing.   |

## 11. Toxicological information

### Information on expected route of exposure

|                   |   |
|-------------------|---|
| <b>Inhalation</b> | May cause irritation of respiratory tract.          |
| <b>Ingestion</b>  | Ingestion may cause irritation to mucous membranes. |
| <b>Eyes</b>       | Irritating to eyes.                                 |
| <b>Skin</b>       | Irritating to skin.                                 |

### Toxicology data for the components

| Component         | LD50 Oral          | LD50 Dermal | LC50 Inhalation |
|-------------------|--------------------|-------------|-----------------|
| Isonicotinic acid | 3345 mg/kg ( Rat ) | -           | -               |

**Toxicologically Synergistic Products** No information available

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 2

**(d) respiratory or skin sensitization;**  
**Respiratory** No data available  
**Skin** No data available

**(e) germ cell mutagenicity;** No data available

**(f) carcinogenicity;**

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component         | CAS No  | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-------------------|---------|------------|------------|------------|------------|------------|
| Isonicotinic acid | 55-22-1 | Not listed | Not listed | Not listed | Not listed | Not listed |

**(g) reproductive toxicity;** No data available

**(h) STOT-single exposure;** Category 3  
**Results / Target organs** Respiratory system.

**(i) STOT-repeated exposure;** No data available  
**Target Organs** No information available.

**(j) aspiration hazard;** Not applicable

Solid

**Symptoms / effects, both acute and delayed** No information available.

**Other Adverse Effects** The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

### Ecotoxicity

**Persistence and Degradability** Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

**Mobility** Will likely be mobile in the environment due to its water solubility.

| Component         | log Pow |
|-------------------|---------|
| Isonicotinic acid | 0.32    |

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

**DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG/IMO** Not regulated

## 15. Regulatory Information

### United States of America Inventory

| Component         | CAS No  | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|-------------------|---------|------|---|-----------------------------|
| Isonicotinic acid | 55-22-1 | X    | ACTIVE  | -                           |

#### **Legend:**

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)** Not applicable

**TSCA 12(b) - Notices of Export** Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component         | CAS No  | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-------------------|---------|-----|------|-----------|-------|------|------|------|-------|------|
| Isonicotinic acid | 55-22-1 | X   | -    | 200-228-2 | X     | X    | X    | X    | -     | -    |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)** Not applicable

**Clean Air Act** Not applicable

**OSHA - Occupational Safety and Health Administration** Not applicable

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations** Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security** This product does not contain any DHS chemicals.

### Other International Regulations

**Mexico - Grade** No information available

**Authorisation/Restrictions according to EU REACH** Not applicable

| Component         | CAS No  | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-------------------|---------|---|---|---|
| Isonicotinic acid | 55-22-1 | -   | -   | -   |

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

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|-----------|--------|----------|------------------------------|---------------------------|--|
|           |        |          |                              |                           |  |

|                   |         |                |                |                |                |
|-------------------|---------|----------------|----------------|----------------|----------------|
| Isonicotinic acid | 55-22-1 | Not applicable | Not applicable | Not applicable | Not applicable |
|-------------------|---------|----------------|----------------|----------------|----------------|

**Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?**

Not applicable

**Other International Regulations**

| Component         | CAS No  | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|-------------------|---------|---|--|----------------------------|------------------------------------|
| Isonicotinic acid | 55-22-1 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

**16. Other Information**

|                         |   |
|-------------------------|---|
| <b>Prepared By</b>      | Product stewardship (Regulatory Affairs)<br>Thermo Fisher Scientific<br>email - begel.sdsdesk@thermofisher.com  |
| <b>Creation Date</b>    | 08-Nov-2010   |
| <b>Revision Date</b>    | 18-Dec-2025   |
| <b>Print Date</b>       | 18-Dec-2025   |
| <b>Revision Summary</b> | Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024. |

**Disclaimer**

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**End of SDS**