



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 10-Feb-2023 Revision Number 2.03

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Isonicotinohydrazide
Product Code	090-01202
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029
Emergency telephone number Recommended uses and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

### Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Reproductive Toxicity Specific target organ toxicity (single exposure) Category 1 nervous system Specific target organ toxicity (repeated exposure) Category 1 nervous system, liver, blood Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 2 Category 1 Category 1

Category 3

Pictograms



Danger

#### Hazard statements

- H302 Harmful if swallowed
- H361 Suspected of damaging fertility or the unborn child
- H402 Harmful to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H370 Causes damage to the following organs: nervous system
- H372 Causes damage to the following organs through prolonged or repeated exposure: nervous system, liver, blood

#### Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required

- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Avoid release to the environment

### Precautionary statements-(Response)

- · IF exposed: Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

Precautionary statements-(Storage)

#### Store locked up

#### **Precautionary statements-(Disposal)**

· Dispose of contents/container to an approved waste disposal plant

#### Others Other hazards

Not available

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula

# C6H7N3O

Not applicable

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Isonicotinic acid hydrazide	98.0	137.14	(5)-737	公表	54-85-3
Note on ISHL No.:	* in the	table means announ	ced chemical substa	ances.	

in the table means announced chemical substances.

Impurities and/or Additives:

### Section 4: FIRST AID MEASURES

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### Protection of first-aiders

Use personal protective equipment as required.

### Section 5: FIRE FIGHTING MEASURES

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## Special extinguishing method

No information available

### Special protective actions for

#### fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

No information available

#### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

#### Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### Storage

Safe storage conditions	
Storage conditions	Keep container protect from light, store
	in well-ventilated place at room temperature (preferably cool). Keep container tightly closed.
Safe packaging material	Glass
Incompatible substances	Strong oxidizing agents

### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

#### **Exposure limits**

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Personal protective equipment

**Respiratory protection** Hand protection Eye protection Skin and body protection Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

#### General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# Form

Color

White - nearly white

Appearance crystals - crystalline powder Odor no data available Melting point/freezing point 170 - 173 °C Boiling point, initial boiling point and boiling range no data available Flammability no data available Evaporation rate: no data available Flammability (solid, gas): no data available Upper/lower flammability or explosive limits no data available Upper: Lower: no data available Flash point no data available Auto-ignition temperature: no data available no data available Decomposition temperature: рΗ no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available Solubilities water : free soluble . Ethanol : sparingly soluble . Diethyl ether : very slightly soluble. n-Octanol/water partition coefficient:(log Pow) no data available no data available Vapour pressure Specific Gravity / Relative density no data available no data available Vapour density **Particle characteristics** no data available

# Section 10: STABILITY AND REACTIVITY

#### Stability

Reactivity	no data available
Chemical stability	May be altered by light.
Hazardous reactions	
None under normal processing	
Conditions to avoid	
Extremes of temperature and direct	ect sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition produc	
Carbon monooxide (CO), Carbor	n dioxide (CO2), Nitrogen oxides (NOx)

# Section 11: TOXICOLOGICAL INFORMATION

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isonicotinic acid hydrazide	650 mg/kg bw (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
			Based on the NITE GHS classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
			Based on the NITE GHS classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
Isonicotinic acid hydrazide	Based on the NITE GHS classification results.	
Serious eye damage/ irritation		
Chemical Name	Serious eye damage/irritation source information	

Isonicotinic acid hydrazide	Isonicotinic acid hydrazide		Based on the NITE GHS classification results.		
Respiratory or skin sensitization					
Chemical Name			Respiratory or Skin sensitization source information		
Isonicotinic acid hydrazide		B	ased on the NITE GH	IS classification res	sults.
Reproductive cell mutagenicity					
Chemical Name			germ cell m	utagencity source	e information
Isonicotinic acid hydrazide		B	ased on the NITE GH	IS classification res	sults.
Carcinogenicity					
Chemical Name			Carcino	genicity source in	formation
Isonicotinic acid hydrazide		B	ased on the NITE GH	IS classification res	sults.
Chemical Name	NTP		IARC	ACGIH	JSOH (Japan)
Isonicotinic acid hydrazide			Group 3		
54-85-3			-		
Reproductive toxicity					
Chemical Name			Reproductive toxicity source information		
Isonicotinic acid hydrazide		B	Based on the NITE GHS classification results.		
STOT-single exposure					
Chemical Name			STOT -single exposure- source information		
Isonicotinic acid hydrazide		B	Based on the NITE GHS classification results.		
STOT-repeated exposure					
Chemical Name			STOT -repeated exposure- source information		
Isonicotinic acid hydrazide		B	Based on the NITE GHS classification results.		
Aspiration hazard					
Chemical Name			Aspiration Hazard source information		
Isonicotinic acid hydrazide		B	Based on the NITE GHS classification results.		

# Section 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isonicotinic acid hydrazide	N/A	N/A	EC50 : Daphnia magna
-			84.6 mg/L 24 h

#### Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
Isonicotinic acid hydrazide		Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

# Section 13: DISPOSAL CONSIDERATIONS

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Section 14: TRANSPORT INFORMATION

ADR/RID UN number Not regulated

Proper shipping name: UN classfication Subsidiary hazard class Packing group	
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Packing group Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable No information available
IATA UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Environmentally Hazardous Substance	Not applicable

# Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA	Listed Listed
Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	tNot applicable
Regulations for the carriage	Not applicable
and storage of dangerous goods in ship	
Civil Aeronautics Law	Not applicable
Pollutant Release and Transfer	
Register Law	
(~2023.3.31)	
Pollutant Release and Transfer	Not applicable
Register Law	,
<u>(2023/4/1~)</u>	
Export Trade Control Order	Not applicable

# Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
	etc

#### Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe

handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

End of Safety Data Sheet