



TOKU-E COMPANY
MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE (USA only): +1-800-535-5053 INF.: +86-21-5206 9530

I. Substance identification

Isoniazid

II. Composition/ information on ingredients

CAS No.: 54-85-3

FW: C₆H₇N₃O

III. Hazard identification

Label precautionary statements

Harmful.

Harmful if swallowed. Irritating to skin.

Target organ(s): Liver. Nerves.

In case of accident or if you feel unwell, seek medical advice immediately (show label when possible). Wear suitable protective clothing, gloves and eye/ face protection.

IV. First-aid measures

In case of contact, immediately flush eyes or skin with copious amounts of water at least 15 minutes while removing contaminated clothing and shoes. Assure adequate flushing of eyes by separating eyelids with fingers. If inhaled, remove to fresh air. If breathing is difficult, call a physician. If swallowed, wash out mouth with water (provided person is conscious). Call a physician immediately. Wash all contaminated clothing before reuse.

V. Fire extinguishing measures.

Extinguishing media: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Wear self-contained breathing apparatus and protective clothing to prevent contact with eyes and skin.

Unusual fire and explosion hazards:

Emits toxic fumes under fire conditions.

VI. Accidental release measures

Evacuate area. Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Wear disposable coveralls and discard them after use.

Sweep up; avoid raising dust, place in a bag and hold for waste disposal.

Ventilate area and wash spill site after material pickup is complete.



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VII. Handling and storage

Wear appropriate Government approved respirator, chemical resistant gloves, safety goggles, and all other protective clothing. Mechanical exhaust required. Safety shower and bath.

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling.

Keep tightly closed.

VIII. Physical properties

Appearance: White solid powder.

PH: 5.5-6.5

Melting point: 170°C

Solubility: Soluble in water.

Other Solvents: Mek, Acetone, Chloroform

IX. Stability and reactivity

Stable. Avoid strong oxidizing agents.

Hazardous combustion or decomposition products thermal decomposition may produce Carbon monoxide, carbon dioxide, nitrogen oxides.

Hazardous polymerization will not occur.

X. Toxicological information

May cause skin irritation. May be harmful if absorbed through the skin. May cause eye irritation. May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if swallowed.

Signs and symptoms of exposure: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

Target organ(s): Liver. Nerves. Blood.

Toxicity data:

Oral Man LDLO: 523 MG/KG

Oral Human LDLO: 100 MG/KG

Oral Man LDLO:116 MG/KG

Oral Rat LD50: 1250 MG/KG

Intraperitoneal Rat LD50: 335 MG/KG.

Subcutaneous Rat LD50: 329 MG/KG

Intravenous Rat LD50: 365 MG/KG

Intramuscular Rat LD50: 400 MG/KG.

Oral Mouse LD50: 133 MG/KG

Intraperitoneal Mouse LD50: 100 MG/KG

Subcutaneous Mouse LD50: 125 MG/KG

Intravenous Mouse LD50: 149 MG/KG

Intramuscular Mouse LD50: 137 MG/KG

Oral Dog LD50: 50 MG/KG

Intraperitoneal Cat LD50: 325 MG/KG

Oral Rabbit LD50: 250 MG/KG



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Intraperitoneal Rabbit LD50: 147 MG/KG
Subcutaneous Rabbit LD50: 135 MG/KG
Intravenous Rabbit LD50: 94 MG/KG
Intramuscular Rabbit LD50: 155 MG/KG.
Intracerebral Rabbit LD50: >12 MG/KG
Oral Guinea pig LD50: 255 MG/KG
Intraperitoneal Guinea pig LD50: 195 MG/KG
Subcutaneous Guinea pig LD50: 195 MG/KG
Intravenous Guinea pig LD50: 220 MG/KG
Intramuscular Guinea pig LD50: 255 MG/KG

Irritation data:

Skin Rabbit 24H

500 mg

Chronic exposure: Carcinogen. Teratogen. Mutagen. Reproductive hazard.

IARC carcinogen list: Rating Group 3

Only selected registry of toxic effects of chemical substances (RTECS) data is presented here. See actual entry in trees for complete information.

XI. Ecological information:

Acute ecotoxicity test:

Test Type: EC50 Daphnia

Species: Daphnia magna

Time: 24 h

Value: 84.6 mg/l

XII. Disposal considerations

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

XIII. Transport information:

This substance is considered to be non-hazardous for transport.

Non-hazardous for air transport.

XIV. Regulatory information

US information

Harmful.

Harmful if swallowed. Irritating to skin. Wear suitable gloves.

Target organ(s): Liver. Nerves.

SARA list: No.

TSCA inventory item: Yes.

EU information:

Harmful.

R: 22 38

Harmful if swallowed. Irritating to skin.



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S: 37

Wear suitable gloves.

Canada information

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes.

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NDSL: No

X V. Other Information

The information and recommendations set forth herein are believed to be completed and faithful. However, it is the user's responsibility to determine the suitability for his/ her purpose prior to use. Toku-E Company assumes no additional liability and responsibility resulting from use and/ or reliance on this information.