



Wuhan Xinru Chemical Industry Co., Ltd

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MATERIAL SAFETY DATA SHEET

Product Identification

【Product Name】

2-(1-Naphthylmethyl)imidazoline hydrochloride

【Synonyms】

2-(1-Naphthylmethyl)-2-imidazoline hydrochloride
2-Imidazoline, 2-(1-naphthylmethyl)-, monohydrochloride

【CAS】 550-99-2

【Formula】 C₁₄H₁₅ClN₂

【Molecular Weight】 246.76

【EINECS】 208-989-2

【RTECS】 NJ4375000

【RTECS Class】 Drug; Human Data

【Merck】 12,6455

【Beilstein/Gmelin】 3716843

【Beilstein Reference】 5-23-08-00293

Physical and Chemical Properties

【Appearance】 White powder.

【Solubility in water】 170 g/L

【Melting Point】 258 - 259

【pKa/pKb】

pKa (25°C) 10.35 ±0.02, (35°C) 10.13 ±0.02, (45°C) 9.92 ±0.03; pKa (25°C) 10.35 ±0.02, (35°C) 10.13 ±0.02, (45°C) 9.92 ±0.03 (pKa)



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【Usage】 Nasal decongestant.

First Aid Measures

【Ingestion】

Never give anything by mouth to an unconscious person. Get medical aid immediately. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

【Inhalation】

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. DO NOT use mouth-to-mouth respiration.

【Skin】

Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

【Eyes】

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Handling and Storage

【Storage】

Keep containers tightly closed. Store in a cool, dry area away from incompatible substances.

【Handling】

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well ventilated area. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Hazards Identification

【Inhalation】

Inhalation of high concentrations may cause central nervous system effects characterized by headache, dizziness, unconsciousness and coma. Inhalation may produce headache, dizziness, blurred vision, lowered blood pressure, slow pulse and



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respiratory tract irritation.

【Skin】 May cause skin irritation.

【Eyes】 May cause eye irritation.

【Ingestion】

May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

【EC Risk Phrase】 R 25

【EC Safety Phrase】 S 22 36/37 45

【UN (DOT)】 2811

Exposure Controls/Personal Protection

【Personal Protection】

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate protective gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to prevent skin exposure.

【Respirators】

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

【Exposure Effects】

Repeated exposure may cause loss or impairment of smell.

Fire Fighting Measures

【Fire Fighting】

Wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. To extinguish fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.



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Accidental Release Measures

【Small spills/leaks】

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Stability and Reactivity

【Incompatibilities】

Direct light, aluminum, strong oxidizing agents.

【Stability】 Stable under normal temperatures and pressures.

【Decomposition】

Hydrogen chloride, nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Transport Information

【UN Number】 2811

【Stability】 No data.