

Fasudil, Monohydrochloride Salt

Cat#: orb61028 (MSDS)

SECTION 1. IDENTIFICATION:

Trade name: Fasudil, Monohydrochloride Salt

SECTION 2. HAZARD(S) IDENTIFICATION:

Hazard Description: Harmful

Substance Class Identifier: Drug; Reproductive Effector

Harmful if swallowed

May be harmful if inhaled or by skin absorption

Ingestion may result in hypotension (low blood pressure), fatigue, diarrhea, nausea, vomiting, neutropenia (type of reduced white blood cell count), anorexia (decreased appetite), edema (fluid retention) and inflammation

Exposure may cause irritation of the respiratory tract, eye, and skin and allergic respiratory and skin reaction

Signal Word: Warning

GHS Hazard Statements:

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H333 - May be harmful if inhaled

H335 - May cause respiratory irritation

GHS Precautionary Statements:

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P280 - Wear protective gloves/eye protection/face protection

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth

P314 - Get medical advice/attention if you feel unwell

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name: 5-[(Hexahydro-1H-1,4-diazepin-1-yl)sulfonyl]-isoquinoline hydrochloride

Synonyms: AT-877, Eril, HA-1077 Monohydrochloride

Hazardous Ingredient: Fasudil, Monohydrochloride Salt

CAS Registry Number: 105628-07-7

Molecular Weight: 327.83

Molecular Formula: C₁₄H₁₇N₃O₂S•HCl

SECTION 4. FIRST-AID MEASURES:

After Inhalation: If inhaled, remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration

After skin contact: flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

After eye contact: flush with copious amounts of water; assure adequate flushing by separating the eyelids with fingers; call a physician

After swallowing: if swallowed, wash out mouth with copious amounts of water; call a physician

SECTION 5. FIRE-FIGHTING MEASURES:

Suitable extinguishing agents: water spray, carbon dioxide, dry chemical powder or foam

Protective equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with

skin and eyes

Unusual fire hazard: may emit toxic fumes under fire conditions

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Person-related safety precautions: cordon off area of spill; wear self-contained breathing apparatus, protective clothing and heavy rubber gloves

Measures for cleaning/collecting: absorb solutions with finely- powdered liquid-binding material (diatomite, universal binders); decontaminate surfaces and equipment by scrubbing with alcohol; dispose of contaminated material according to Section 13

SECTION 7. HANDLING AND STORAGE:

Information for safe handling: avoid contact with skin, eyes and clothing; material may be an irritant

Storage: store solid and solutions at -20 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Personal protective equipment as follows:

Breathing equipment: NIOSH/MSHA-approved respirator

Protection of hands: chemical-resistant rubber gloves

Eye protection: chemical safety goggles

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Form: crystalline solid; granular or powder

Color: white

Odor: none

Melting point/Melting range: not tested

Danger of explosion: none

Solubility in / Miscibility with water: very soluble in water, up to about 200 mg/mL

Solvent content: none

Organic solvents: soluble in DMSO up to about 95 mg/mL; not soluble in ethanol

SECTION 10. STABILITY AND REACTIVITY:

Stability: avoid acids and bases

Thermal decomposition / conditions to be avoided: protect from light and heat

Dangerous products of decomposition: thermal decomposition may produce toxic gases such as carbon monoxide and carbon dioxide

SECTION 11. TOXICOLOGICAL INFORMATION:

RTECS #: HM4033500

Acute toxicity: oral toxicity (LD50): 274 mg/kg (mouse), 335 mg/kg (rat); subcutaneous toxicity (LD50): 124 mg/kg (mouse), 123 mg/kg (rat); intravenous toxicity (LD50): 67.6 mg/kg (mouse), 59.9 mg/kg (rat), 20 mg/kg (monkey)

Primary irritant effect:

On the skin: may be harmful if absorbed through the skin; may cause skin irritation

On the eye: may cause eye irritation

Inhalation: may be harmful if inhaled; may cause respiratory tract irritation

Ingestion: harmful if swallowed

SECTION 12. ECOLOGICAL INFORMATION:

General notes: no data available

Treat as potentially toxic if released into the environment

SECTION 13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with prevailing country, federal, state and local regulations

SECTION 14. TRANSPORT INFORMATION:

DOT:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

IATA class:

Proper shipping name: none

Non-Hazardous for transport: this substance is considered to be non-hazardous for transport

SECTION 15. REGULATORY INFORMATION:

Code letter and hazard designation of product:

Xn: Harmful

EU Risk And Safety phrases:

S22: Do not breathe dust

S24/25: Avoid contact with skin and eyes

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

R22: Harmful if swallowed

SECTION 16. OTHER INFORMATION:

The above information is believed to be correct based on our present knowledge but does not purport to be complete. For research use only by trained personnel. The burden of safe use of this material rests entirely with the user.