

EPIRUBICIN HCL

Version: EPI-MSDS-07-11-08

Revised:

Print date: 09.11.2007

1. Identification of the substance and of the company

Name: **Epirubicin HCL**
Synonyme: 4'-Epidoxorubicin, HCl

Use: Pharmaceutical ingredient
Company: Chemex Hamburg GmbH
Bültbek 5
22962 Siek
Fon: +49-(0) 4107-8779-333
Fax: +49-(0) 4107-8779-300

Information/Emergency: Fon: +49-(0)40-89966412
Dr. Fintelmann und Dr. Meyer GmbH, 22761 Hamburg

2. Hazards identification

May cause cancer. May cause heritable genetic damage. Restricted to professional users.
Attention - Avoid exposure - obtain special instructions before use.

3. Composition / information on ingredients

Chemical name: Epirubicinhydrochlorid
Formula: C₂₇H₂₉N₀₁₁ · HCL
MW: 580,0 g/mol
CAS-No.: 56390-09-1
RTECS: Q19295750
Symbol: T
R-Phrase: 23/24/25/45-46

4. First aid measures

After inhalation: Fresh air. Summon doctor.
After skin contact: Wash off with plenty of water.
After eye contact: Rinse out with plenty of water with the eyelid held wide open.
After ingestion: Make victim drink plenty of water, induce vomiting. Immediately summon doctor.

EPIRUBICIN HCL

Version: EPI-MSDS-07-11-08

Revised:

Print date: 09.11.2007

5. Fire fighting measures

Suitable extinguishing media: Water, foam, powder.
Specific hazards: Combustible. Development of hazardous combustion gases or vapours possible in the event of fire. Contain escaping vapours with water. The following may develop in event of fire: nitrous gases, hydrochloric acid.
Protective equipment: Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

6. Accidental release measures

Person-related safety precautions: Avoid generation of dusts.
Measures for environmental protection: --
Measures for cleaning/collecting: Carefully take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Advice on safe handling: EPIRUBICIN HYDROCHLORIDE IS A CYTOTOXIC AGENT. ALL WORK PRACTICES MUST BE DESIGNED TO REDUCE HUMAN EXPOSURE TO THE LOWEST LEVEL.
Advice on protection against fire and explosion: --
Advice on storage assembly: Tightly closed. In a well-ventilated place. Accessible only for authorized persons.
Storage temperature: At +15°C to +25°C.

8. Exposure control / personal protection

Exposure limits: --
Personal protective equipment:
Breath protection: A full-face respirator with a HEPA filter should be used until a Biological Safety Cabinet is installed. A respirator is not required for routine conditions of use with a Biological Safety Cabinet.
Hand protection: Double glove, using latex, nitrile, or rubber gloves. Check gloves for leaks. Wash hands before putting on gloves and after removing gloves. Gloves should cover the gown cuff.
Eye protection: Chemical splash goggles, or regular splash goggles, with a full faceshield.
Skin protection: A full body gown which is closed at the front and has long sleeves.
General information: Change contaminated clothing. Wash hands after working with substance.

EPIRUBICIN HCL

Version: EPI-MSDS-07-11-08

Revised:

Print date: 09.11.2007

9. Physical and chemical properties

Appearance: Colour: yellow to red
Solubility: sol. in cold water
Odour: none
Melting range: --

10. Stability and reactivity

Conditions to avoid: Heat may cause this product to decompose, destroy the product, and produce irritating vapors and toxic gases. Avoid contact with heat and compatible chemicals.
Dangerous products of decomposition: nitrogen oxides, hydrochloric acid

11. Toxicological information

Acute toxicity: LD₅₀ (oral, rat): 1350 mg/kg
LD₅₀ (iv rat): 17 mg/kg
Mutagenicity: --
Reproduction toxicity: --
Chronical impact: Carcinogenic effect, The substance reacts with genetic material.

12. Ecological information

General: Do not allow to enter drinking water supplies, waste water, or soil!
Water pollution class (Germany): 3

13. Disposal considerations

EG-Code: 18 02 08
Recommendation: Waste disposal must be in accordance with appropriate State, and local regulations.

EPIRUBICIN HCL

Version: EPI-MSDS-07-11-08

Revised:

Print date: 09.11.2007

14. Transport information



ADR/RID-Code : UN 2811, Class: 6.1, PG II

IMDG-Code : UN 2811, Class: 6.1, PG II

IATA-DGR-Code : UN 2811, Class: 6.1, PG II

Proper Shipping Name: Toxic solid, organic, n.o.s.

15. Regulatory information



T, toxic,

R 45-46:	May cause cancer. May cause heritable genetic damage.
R 23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
S 22:	Do not breathe dust.
S 26/28:	After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 36/37:	Wear suitable protective clothing and gloves.
S 53	Avoid exposure - obtain special instructions before use.

Water pollution class: 3

16. Other information

Safety Data Sheet: EPI-MSDS-07-11-08
 Application: Dr. Fintelmann und Dr. Meyer GmbH, 22761 Hamburg
 Information: M.Flemming, Fon: +49-(0)40-89966412
 Bibliography: Römpp, Kühn-Birett, Merck, BIA, Sorbe, Geftrans, STN, RTECS

The above mentioned data correspond to our present state of knowledge and experience. They serve as a description of the products in regard to necessary safety measures and do not guarantee the described chemical properties.