**Dibekacin sulfate (cas 58580-55-5) MSDS**

- **MSDS**: D-Streptamine, O-3-amino-3-deoxy-alpha-D-glucopyranosyl-(1-6)-O-(2,6-diamino-2,3,4,6-tetradeoxy-alpha-D-erythro-hexopyranosyl-(1-4))-2-deoxy-xyn-, sulfate (salt)
- **CAS**: 58580-55-5
- **SYNONYMS**: * Debecacin sulfate, * Dibekacin sulfate, * Orbicin, * Panimycin

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**Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers**

[D-Streptamine, O-3-amino-3-deoxy-alpha-D-glucopyranosyl-(1-6)-O-(2,6-diamino-2,3,4,6-tetradeoxy-alpha-D-erythro-hexopyranosyl-(1-4))-2-deoxy-xyn-, sulfate (salt) 58580-55-5]

---

***** CHEMICAL IDENTIFICATION *****

<table>
<thead>
<tr>
<th>RTECS NUMBER</th>
<th>WK1990000</th>
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<tbody>
<tr>
<td>CHEMICAL NAME</td>
<td>D-Streptamine, O-3-amino-3-deoxy-alpha-D-glucopyranosyl-(1-6)-O-(2,6-diamino-2,3,4,6-tetradeoxy-alpha-D-erythro-hexopyranosyl-(1-4))-2-deoxy-xyn-, sulfate (salt)</td>
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<tr>
<td>CAS REGISTRY NUMBER</td>
<td>58580-55-5</td>
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<tr>
<td>LAST UPDATED</td>
<td>199506</td>
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<td>DATA ITEMS CITED</td>
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<td>MOLECULAR FORMULA</td>
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<td>MOLECULAR WEIGHT</td>
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<td>WISWESSER LINE NOTATION</td>
<td>TEOJ B1Q CQ D2 EQ FO- BL67J A2 Q2 E2 DO- BF6OTJ C2 F12 &amp;..H2.S-04</td>
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<td>COMPOUND DESCRIPTOR</td>
<td>Drug</td>
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***** HEALTH HAZARD DATA *****

**ACUTE TOXICITY DATA**

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>LD50 - Lethal dose, 50 percent kill</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Oral</td>
</tr>
<tr>
<td>SPECIES OBSERVED</td>
<td>Rodent - rat</td>
</tr>
<tr>
<td>DOSE/DURATION</td>
<td>6950 mg/kg</td>
</tr>
<tr>
<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
</tr>
</tbody>
</table>

**REFERENCE**

YKYUA6 Yakkyoku. Pharmacy. (Nanzando, 4-1-11, Yushima, Bunkyo-ku, Tokyo, Japan) V.1- 1950- Volume(issue)/page/year: 26,741,1975

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>LD50 - Lethal dose, 50 percent kill</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Intraperitoneal</td>
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<td>SPECIES OBSERVED</td>
<td>Rodent - rat</td>
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<td>DOSE/DURATION</td>
<td>799 mg/kg</td>
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<tr>
<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
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</tbody>
</table>

**REFERENCE**

NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

<table>
<thead>
<tr>
<th>TYPE OF TEST</th>
<th>LD50 - Lethal dose, 50 percent kill</th>
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<tr>
<td>ROUTE OF EXPOSURE</td>
<td>Subcutaneous</td>
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<tr>
<td>SPECIES OBSERVED</td>
<td>Rodent - rat</td>
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<tr>
<td>DOSE/DURATION</td>
<td>1376 mg/kg</td>
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<td>TOXIC EFFECTS</td>
<td>Details of toxic effects not reported other than lethal dose value</td>
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</tbody>
</table>

**REFERENCE**

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 140 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intramuscular
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 560 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Oral
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: >6950 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intraperitoneal
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 431 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 521 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 62600 ug/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
NIIRDN Drugs in Japan (Ethical Drugs). (Yakugyo Jiho Co., Ltd., Tokyo, Japan) Volume(issue)/page/year: 6,340,1982

** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST: TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Rodent - rat
DOSE/DURATION: 560 mg/kg/4W-I
TOXIC EFFECTS:
Kidney, Ureter, Bladder - changes in bladder weight
Blood - changes in serum composition (e.g. TP, bilirubin, cholesterol)
Nutritional and Gross Metabolic - changes in potassium
REFERENCE:
YACHDS Yakuri to Chiryo. Pharmacology and Therapeutics. (Raifu Saiensu Shuppan K.K., 2-5-13, Yaesu, Chuo-ku, Tokyo 104, Japan) V.1- 1972-
Volume(issue)/page/year: 16,2421,1988

*** END OF RECORD ***