Phenformin (cas 114-86-3) MSDS

**CHEMICAL IDENTIFICATION**

<table>
<thead>
<tr>
<th>RTECS NUMBER</th>
<th>: DUZ100000</th>
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<tr>
<td>CHEMICAL NAME</td>
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<td>CAS REGISTRY NUMBER</td>
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<td>BEILSTEIN REFERENCE NO.</td>
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<td>REFERENCE</td>
<td>: 4-12-00-02472 (Beilstein Handbook Reference)</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>
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<td>COMPOUND DESCRIPTOR</td>
<td>: Tumorigen</td>
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**SYNONYMS/TRADE NAMES**

* DBI
* Fenformina
* N'-beta-Fenetilformamidiniliminourea
* NCI-C01741
* PEDG
* beta-Phenethylbiguanide
* 1-Phenethylbiguanide
* Phenethyldiguanide
* N'-beta-Phenethylformamidinylliminourea
* Phenform
* Phenformix
* Phenylethylbiguanide
* W 32

**HEALTH HAZARD DATA**

**ACUTE TOXICITY DATA**

**TYPE OF TEST**

LD50 - Lethal dose, 50 percent kill

**ROUTE OF EXPOSURE**

Oral

**SPECIES OBSERVED**

Rodent - rat

**DOSE/DURATION**

650 mg/kg

**TOXIC EFFECTS**

Details of toxic effects not reported other than lethal dose value

**REFERENCE**

APPHAX Acta Poloniae Pharmaceutica. For English translation, see APPFAR.

(Art Polona, POB 1001, 00-680 Warsaw 1, Poland) V.1- 1937-
Volume(issue)/page/year: 42,236,1985
TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Intraperitoneal
SPECIES OBSERVED: Rodent - mouse
DOSE/DURATION: 140 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
BCFAAI Bollettino Chimico Farmaceutico. (Societa Editoriale Farmaceutica,
Via Ausonio 12, 20123 Milan, Italy) V.33- 1894- Volume(issue)/page/year:
97,396,1958

TYPE OF TEST: LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE: Subcutaneous
SPECIES OBSERVED: Rodent - guinea pig
DOSE/DURATION: 16 mg/kg
TOXIC EFFECTS:
Details of toxic effects not reported other than lethal dose value
REFERENCE:
MEXPAG Medicina Experimentalis. (Basel, Switzerland) V.1-11, 1959-64;
V.18-19, 1968-69. For publisher information, see JNMDBO.
Volume(issue)/page/year: 8,237,1963

TYPE OF TEST: LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE: Intravenous
SPECIES OBSERVED: Rodent - guinea pig
DOSE/DURATION: 30 mg/kg
TOXIC EFFECTS:
Nutritional and Gross Metabolic - metabolic acidosis
REFERENCE:
43ZRAD "Hemoperfusion: Kidney and Liver Support and Detoxification,
Proceedings of the International Symposium, Haifa, 1979," Sideman, S., and
T.M.S. Chang, eds., Multiple parts, New York, Hemisphere Pub. Corp., 1980-
Volume(issue)/page/year: 1,337,1980

*** STATUS IN U.S. ***
(Bethesda, MD) No.0-205. For publisher information, see NTPTR*.
Volume(issue)/page/year: NCI-TR-7,77

*** END OF RECORD ***