

*** CHEMICAL IDENTIFICATION ***

RTECS NUMBER : SM8925000
CHEMICAL NAME : Phenol, 4,4'-sulfonyldi-
CAS REGISTRY NUMBER : 80-09-1
BEILSTEIN REFERENCE NO. : 2052954
REFERENCE : 4-06-00-05809 (Beilstein Handbook Reference)
LAST UPDATED : 199801
DATA ITEMS CITED : 13
MOLECULAR FORMULA : C12-H10-O4-S
MOLECULAR WEIGHT : 250.28
WISWESSER LINE NOTATION : QR DSWR DQ
COMPOUND DESCRIPTOR : Primary Irritant
SYNONYMS/TRADE NAMES :
* Bis(p-hydroxyphenyl)sulfone
* Bis(4-hydroxyphenyl)sulfone
* Bisphenol S
* 4,4'-Bisphenol S
* BPS 1
* P,P'-Dihydroxydiphenyl sulfone
* 4,4'-Dihydroxydiphenyl sulfone
* Diphone C
* 4-Hydroxyphenyl sulfone
* 4,4'-Sulfonylbisphenol
* 4,4'-Sulfonyldiphenol

*** HEALTH HAZARD DATA ***

** SKIN/EYE IRRITATION DATA **

TYPE OF TEST : Standard Draize test
ROUTE OF EXPOSURE : Administration onto the skin
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 500 mg/24H
REACTION SEVERITY : Mild
REFERENCE :
BIOFX* BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. (1810
Frontage Rd., Northbrook, IL 60062) Volume(issue)/page/year: 601-05501,1974

TYPE OF TEST : Standard Draize test
ROUTE OF EXPOSURE : Administration into the eye
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 100 mg
REACTION SEVERITY : Moderate
REFERENCE :
BIOFX* BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. (1810
Frontage Rd., Northbrook, IL 60062) Volume(issue)/page/year: 601-05501,1974

** ACUTE TOXICITY DATA **

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 4556 mg/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value
REFERENCE :
BIOFX* BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. (1810
Frontage Rd., Northbrook, IL 60062) Volume(issue)/page/year: 601-05501,1974

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 400 mg/kg
TOXIC EFFECTS :
Details of toxic effects not reported other than lethal dose value
REFERENCE :
NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0534330

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 1600 mg/kg
TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0534330

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Intraperitoneal
SPECIES OBSERVED : Rodent - mouse
DOSE/DURATION : 200 mg/kg
TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0534330

TYPE OF TEST : LDLo - Lowest published lethal dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : 4700 mg/kg
TOXIC EFFECTS :

Behavioral - convulsions or effect on seizure threshold
Lungs, Thorax, or Respiration - dyspnea
Kidney, Ureter, Bladder - other changes in urine composition

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0555048

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Administration onto the skin
SPECIES OBSERVED : Rodent - rabbit
DOSE/DURATION : >10250 mg/kg
TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

BIOFX* BIOFAX Industrial Bio-Test Laboratories, Inc., Data Sheets. (1810
Frontage Rd., Northbrook, IL 60062) Volume(issue)/page/year: 601-05501,1974

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill
ROUTE OF EXPOSURE : Administration onto the skin
SPECIES OBSERVED : Rodent - guinea pig
DOSE/DURATION : >1 mg/kg
TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0534330

** OTHER MULTIPLE DOSE TOXICITY DATA **

TYPE OF TEST : TDLo - Lowest published toxic dose
ROUTE OF EXPOSURE : Oral
SPECIES OBSERVED : Rodent - rat
DOSE/DURATION : 10530 mg/kg/13D-I
TOXIC EFFECTS :

Behavioral - food intake (animal)
Kidney, Ureter, Bladder - changes in tubules (including acute renal failure,
acute tubular necrosis)
Nutritional and Gross Metabolic - weight loss or decreased weight gain

REFERENCE :

NTIS** National Technical Information Service. (Springfield, VA 22161)
Formerly U.S. Clearinghouse for Scientific & Technical Information.
Volume(issue)/page/year: OTS0534330

*** STATUS IN U.S. ***

EPA TSCA Section 8(b) CHEMICAL INVENTORY

EPA TSCA Section 8(d) unpublished health/safety studies

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JUNE 1998

*** END OF RECORD ***