

Stibine (cas 7803-52-3) MSDS

MSDS : Stibine

CAS : 7803-52-3

SYNONYMS : * Antimonwasserstoffes

* antimony hydride

* Antimony trihydride

* Antymonowodor

* Hydrogen antimonide

* Stibine

Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers
[Stibine 7803-52-3]

*** CHEMICAL IDENTIFICATION ***

RTECS NUMBER : WJ0700000

CHEMICAL NAME : Stibine

CAS REGISTRY NUMBER : 7803-52-3

LAST UPDATED : 199712

DATA ITEMS CITED : 13

MOLECULAR FORMULA : H3-Sb

MOLECULAR WEIGHT : 124.78

WISWESSER LINE NOTATION : H3 SB

SYNONYMS/TRADE NAMES :

* Antimonwasserstoffes

* Antimony hydride

* Antimony trihydride

* Antymonowodor

* Hydrogen antimonide

* Stibine

*** HEALTH HAZARD DATA ***

** ACUTE TOXICITY DATA **

TYPE OF TEST : LCLo - Lowest published lethal concentration

ROUTE OF EXPOSURE : Inhalation

SPECIES OBSERVED : Rodent - mouse

DOSE/DURATION : 100 ppm/1H

TOXIC EFFECTS :

Details of toxic effects not reported other than lethal dose value

REFERENCE :

28ZLA8 "Toxicity of Industrial Metals," Browning, E., London, Butterworths,
1961 Volume(issue)/page/year: -,30,1961

TYPE OF TEST : LCLo - Lowest published lethal concentration

ROUTE OF EXPOSURE : Inhalation

SPECIES OBSERVED : Mammal - dog

DOSE/DURATION : 40 ppm/1H

TOXIC EFFECTS :

Lungs, Thorax, or Respiration - acute pulmonary edema

REFERENCE :

JIHTAB Journal of Industrial Hygiene and Toxicology. (Cambridge, MA)
V.18-31, 1936-49. For publisher information, see AEHLAU.
Volume(issue)/page/year: 28,167,1946

TYPE OF TEST : LCLo - Lowest published lethal concentration

ROUTE OF EXPOSURE : Inhalation

SPECIES OBSERVED : Mammal - cat

DOSE/DURATION : 40 ppm/1H

TOXIC EFFECTS :

Lungs, Thorax, or Respiration - acute pulmonary edema

REFERENCE :

JIHTAB Journal of Industrial Hygiene and Toxicology. (Cambridge, MA)
V.18-31, 1936-49. For publisher information, see AEHLAU.
Volume(issue)/page/year: 28,167,1946

TYPE OF TEST : LCLo - Lowest published lethal concentration

ROUTE OF EXPOSURE : Inhalation

SPECIES OBSERVED : Rodent - guinea pig

DOSE/DURATION : 92 ppm/1H

TOXIC EFFECTS :

Kidney, Ureter, Bladder - changes in tubules (including acute renal failure,
acute tubular necrosis)

REFERENCE :

28ZLA8 "Toxicity of Industrial Metals," Browning, E., London, Butterworths,
1961 Volume(issue)/page/year: -,30,1961

*** REVIEWS ***

ACGIH TLV-TWA 0.51 mg/m3 (0.1 ppm)

DTLVS* The Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996 Volume(issue)/page/year: TLV/BEI,1997

*** U.S. STANDARDS AND REGULATIONS ***

MSHA STANDARD-air:TWA 0.1 ppm (0.5 mg/m3)

DTLVS* The Threshold Limit Values (TLVs) and Biological Exposure Indices (BEIs) booklet issues by American Conference of Governmental Industrial Hygienists (ACGIH), Cincinnati, OH, 1996 Volume(issue)/page/year: 3,233,1971

OSHA PEL (Gen Indu):8H TWA 0.1 ppm (0.5 mg/m3)

CFRGBR Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) Volume(issue)/page/year: 29,1910.1000,1994

OSHA PEL (Construc):8H TWA 0.1 ppm (0.5 mg/m3)

CFRGBR Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) Volume(issue)/page/year: 29,1926.55,1994

OSHA PEL (Shipyard):8H TWA 0.1 ppm (0.5 mg/m3)

CFRGBR Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) Volume(issue)/page/year: 29,1915.1000,1993

OSHA PEL (Fed Cont):8H TWA 0.1 ppm (0.5 mg/m3)

CFRGBR Code of Federal Regulations. (U.S. Government Printing Office, Supt. of Documents, Washington, DC 20402) Volume(issue)/page/year: 41,50-204.50,1994

*** NIOSH STANDARDS DEVELOPMENT AND SURVEILLANCE DATA ***

NIOSH RECOMMENDED EXPOSURE LEVEL (REL) :

NIOSH REL TO STIBINE-air:10H TWA 0.1 ppm

REFERENCE :

NIOSH* National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda.

Volume(issue)/page/year: DHHS #92-100,1992

NIOSH OCCUPATIONAL EXPOSURE SURVEY DATA :

NOES - National Occupational Exposure Survey (1983)

NOES Hazard Code - X5764

No. of Facilities: 23 (estimated)

No. of Industries: 1

No. of Occupations: 1

No. of Employees: 23 (estimated)

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

NIOSH Analytical Method, 1994: Stibine, 6008

*** END OF RECORD ***