



chemists helping chemists in research & industry

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Antimony Trichloride

SHIPPING/RECEIVING DOCK

CUST#: 938609
PO#: 65209
DATE: 04/24/90

M A T E R I A L S A F E T Y D A T A S H E E T

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I D E N T I F I C A T I O N

PRODUCT #: 31137-5
CAS #: 10025-91-9
MF: CL3SB

NAME: ANTIMONY TRICHLORIDE, 99+%, A.C.S. REAGENT

S Y N O N Y M S

ANTIMOINE (TRICHLORURE D*) (FRENCH) * ANTIMONIO (TRICLORURO DI) (ITALIAN) * ANTIMONOUS CHLORIDE * ANTIMONOUS CHLORIDE (DOT) * ANTIMONTRICHLORID (GERMAN) * ANTIMONY BUTTER * ANTIMONY CHLORIDE * ANTIMONY CHLORIDE (DOT) * ANTIMONY TRICHLORIDE * ANTIMONY TRICHLORIDE, LIQUID (DOT) * ANTIMONY TRICHLORIDE, SOLID (DOT) * ANTIMONY TRICHLORIDE, SOLUTION (DOT) * ANTIMOONTRICHLORIDE (DUTCH) * BUTTER OF ANTIMONY * CHLORID ANTIMONITY (CZECH) * CHLORURE ANTIMONIEUX (FRENCH) * C.I. 77056 * STIBINE, TRICHLORO- * TRICHLOROSTIBINE * TRICHLORURE D*ANTIMOINE (FRENCH) * UN 1733 (DOT) *

T O X I C I T Y H A Z A R D S

RTECS NO: CC4900000

ANTIMONY (III) CHLORIDE

1 C I T Y D A T A

ORL-RAT LD50:525 MG/KG
IPR-MUS LD50:13 MG/KG
ORL-GPG LD50:574 MG/KG

MARJV# 29MAR77
85GMAT -,23,82
HYSAAV 29(12),16,64

R E V I E W S , S T A N D A R D S , A N D R E G U L A T I O N S

ACGIH TLV-TWA 0.5 MG(SB)/M3 85INAB 5,32,86
MSHA STANDARD-AIR:TWA 0.5 MG(SB)/M3 DTLVS* 3,15,71
OSHA PEL:8H TWA 0.5 MG(SB)/M3 FEREAC 54,2923,89
OSHA PEL FINAL:8H TWA 0.5 MG(SB)/M3 FEREAC 54,2923,89
NIOSH REL TO ANTIMONY-AIR:10H TWA 0.5 MG(SB)/M3 MMWR** 37(S-7),5,88
NOHS 1974: HZD 07405; NIS 6; TNF 125; NOS 9; TNE 1947
NOES 1983: HZD 07405; NIS 9; TNF 344; NOS 11; TNE 22641; TFE 7292
EPA GENETOX PROGRAM 1988, POSITIVE: B SUBTILIS REC ASSAY
EPA TSCA CHEMICAL INVENTORY, 1986
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 1990

T A R G E T O R G A N D A T A

EFFECTS ON NEWBORN (GROWTH STATISTICS)
EFFECTS ON NEWBORN (DELAYED EFFECTS)

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

H E A L T H H A Z A R D D A T A

A C U T E E F F E C T S

HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES BURNS.

HIGH CONCENTRATIONS ARE EXTREMELY DESTRUCTIVE TO TISSUES OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.

C H R O N I C E F F E C T S

LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.

F I R S T A I D

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS

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HEALTH HAZARD DATA

AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED IRRIGATION WITH COPIOUS AMOUNTS OF WATER.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

SPECIFIC GRAVITY: 3.140
VAPOR DENSITY: 7.9
VAPOR PRESSURE: 1 MM @ 48.8 C
APPEARANCE AND ODOR
OFF-WHITE CRYSTALLINE POWDER

FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA
NONCOMBUSTIBLE.
USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.
DO NOT USE WATER.
SPECIAL FIREFIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.
UNUSUAL FIRE AND EXPLOSIONS HAZARDS
WATER HYDROLYZES MATERIAL LIBERATING ACIDIC GAS WHICH IN CONTACT WITH METAL SURFACES CAN GENERATE FLAMMABLE AND/OR EXPLOSIVE HYDROGEN GAS.
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

REACTIVITY DATA

INCOMPATIBILITIES
HEAT
STRONG BASES
REACTS VIOLENTLY WITH WATER.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
HYDROGEN CHLORIDE GAS
ANTIMONY/ANTIMONY OXIDES

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.

CONTINUED ON NEXT PAGE

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PRODUCT #: 31137-5
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MF: CL3S8

NAME: ANTIMONY TRICHLORIDE, 99+%, A.C.S. REAGENT

----- SPILL OR LEAK PROCEDURES -----

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.
WASTE DISPOSAL METHOD
THE MATERIAL SHOULD BE DISSOLVED IN 1) WATER; 2) ACID SOLUTION OR 3) OXIDIZED TO A WATER-SOLUBLE STATE. PRECIPITATE THE MATERIAL AS THE SULFIDE, ADJUSTING THE PH OF THE SOLUTION TO 7 TO COMPLETE PRECIPITATION. FILTER THE INSOLUBLES AND DISPOSE OF THEM IN A HAZARDOUS-WASTE SITE. DESTROY ANY EXCESS SULFIDE WITH SODIUM HYPOCHLORITE. NEUTRALIZE THE SOLUTION BEFORE FLUSHING DOWN THE DRAIN. OBSERVE ALL FEDERAL, STATE, AND LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ---

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
CORROSIVE.
POSSIBLE MUTAGEN.
KEEP TIGHTLY CLOSED.
DO NOT ALLOW CONTACT WITH WATER.
STORE UNDER NITROGEN.
STORE IN A COOL DRY PLACE.

REGULATORY INFORMATION

THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ALDRICH SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. SEE REVERSE SIDE OF INVOICE OR PACKING SLIP FOR ADDITIONAL TERMS AND CONDITIONS OF SALE.

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