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

## SECTION 1. - - - - - CHEMICAL IDENTIFICATION- - - - -

CATALOG #: A9655  
NAME: AURAMINE O, CERTIFIED

## SECTION 2. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 2465-27-2  
MF: C17H22CLN3  
EC NO: 219-567-2

## SYNONYMS

ADC AURAMINE O \* AIZEN AURAMINE \* AIZEN AURAMINE CONC. SFA \* AIZEN  
AURAMINE OH \* AURAMINE A1 \* AURAMINE CONC. SPECIALLY SOLUBLE IN  
SPIRIT \* AURAMINE EXTRA \* AURAMINE EXTRA CONC. A \* AURAMINE FA \*  
AURAMINE HYDROCHLORIDE \* AURAMINE LAKE YELLOW O \* AURAMINE N \*  
AURAMINE O \* AURAMINE O (BIOLOGICAL STAIN) \* AURAMINE O EXTRA CONC. A  
EXPORT \* AURAMINE ON \* AURAMINE OO \* AURAMINE OOO \* AURAMINE OS \*  
AURAMINE PURE \* AURAMINE SP \* AURAMINE YELLOW \* BENZENAMINE, 4,4'-  
CARBONIMIDOYLBIS(N,N-DIMETHYL-, MONOHYDROCHLORIDE (9CI) \* 4,4'-  
BIS(DIMETHYLAMINO)-BENZHYDRYLIDENIMINE HYDROCHLORIDE \* 4:4'-  
BIS(DIMETHYLAMINO)BENZOPHENONE-IMINE HYDROCHLORIDE \* 1,1-BIS(P-  
DIMETHYLAMINOPHENYL)METHYLENIMINE HYDROCHLORIDE \* CALCOZINE YELLOW OX  
\* C.I. 41000 \* C.I. BASIC YELLOW 2 \* C.I. BASIC YELLOW 2,  
MONOHYDROCHLORIDE \* 4,4'-(IMIDOCARBONYL)BIS(N,N-DIMETHYLAMINE),  
MONOHYDROCHLORIDE \* MITSUI AURAMINE O \* ZLUT ZASADITA 2 \*

## SECTION 3. - - - - - HAZARDS IDENTIFICATION - - - - -

## LABEL PRECAUTIONARY STATEMENTS

## TOXIC

HARMFUL IF SWALLOWED.  
TOXIC IN CONTACT WITH SKIN.  
LIMITED EVIDENCE OF CARCINOGENIC EFFECT.  
READILY ABSORBED THROUGH SKIN.  
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.  
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE  
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

## SECTION 4. - - - - - FIRST-AID MEASURES- - - - -

IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.  
CALL A PHYSICIAN IMMEDIATELY.  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL  
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.  
IN CASE OF SKIN CONTACT, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND  
SHOES. CALL A PHYSICIAN.  
IN CASE OF CONTACT WITH EYES, FLUSH WITH COPIOUS AMOUNTS OF WATER  
FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING  
THE EYELIDS WITH FINGERS. CALL A PHYSICIAN.

## SECTION 5. - - - - - FIRE FIGHTING MEASURES - - - - -

## EXTINGUISHING MEDIA

WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

## SPECIAL FIREFIGHTING PROCEDURES

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

## UNUSUAL FIRE AND EXPLOSIONS HAZARDS

EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

## SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES- - - - -

WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.

SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.

AVOID RAISING DUST.

VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

EVACUATE AREA.

## SECTION 7. - - - - - HANDLING AND STORAGE- - - - -

REFER TO SECTION 8.

## SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION- - - - -

USE ONLY IN A CHEMICAL FUME HOOD.

SAFETY SHOWER AND EYE BATH.

WASH CONTAMINATED CLOTHING BEFORE REUSE.

WASH THOROUGHLY AFTER HANDLING.

DO NOT BREATHE DUST.

DO NOT GET IN EYES, ON SKIN, ON CLOTHING.

AVOID PROLONGED OR REPEATED EXPOSURE.

NIOSH/MSHA-APPROVED RESPIRATOR.

COMPATIBLE CHEMICAL-RESISTANT GLOVES.

CHEMICAL SAFETY GOGGLES.

KEEP TIGHTLY CLOSED.

STORE IN A COOL DRY PLACE.

## SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -

## APPEARANCE AND ODOR

SOLID.

## PHYSICAL PROPERTIES

MELTING POINT: 250 C

SOLUBILITY:

WATER -Z25149

PH: 6.5

SWISS POISON CLASS: 1\*

## SECTION 10. - - - - - STABILITY AND REACTIVITY - - - - -

## STABILITY

STABLE.

## INCOMPATIBILITIES

STRONG OXIDIZING AGENTS

## HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

CARBON MONOXIDE, CARBON DIOXIDE

NITROGEN OXIDES

HYDROGEN CHLORIDE GAS

## HAZARDOUS POLYMERIZATION

WILL NOT OCCUR.

## SECTION 11. - - - - - TOXICOLOGICAL INFORMATION - - - - -

## ACUTE EFFECTS

MAY CAUSE SKIN IRRITATION.

TOXIC IF ABSORBED THROUGH SKIN.

MAY CAUSE EYE IRRITATION.

MAY BE HARMFUL IF INHALED.

MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER

RESPIRATORY TRACT.

HARMFUL IF SWALLOWED.

RTECS #: BY3675000

ANILINE, 4,4'-(IMIDOCARBONYL)BIS(N,N-DIMETHYL-, HYDROCHLORIDE

## TOXICITY DATA

IPR-RAT LD50:135 MG/KG

NALSDJ 60,745,1983

ORL-MUS LD50:480 MG/KG	CRDLP* 4-59,1964
SKN-MUS LD50:300 MG/KG	CRDLP* 4-59,1964
SCU-MUS LD50:300 MG/KG	OKEHDW (3),185,1953
ORL-CAT LD50:150 MG/KG	CWLTM* #47-6,1959
ORL-DOM LD50:150 MG/KG	CWLTM* #47-6,1959

## TARGET ORGAN DATA

LIVER (TUMORS)

TUMORIGENIC (EQUIVOCAL TUMORIGENIC AGENT BY RTECS CRITERIA)

TUMORIGENIC (TUMORS AT SITE OF APPLICATION)

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

SECTION 12. - - - - - ECOLOGICAL INFORMATION - - - - -  
DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -  
CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF  
THIS MATERIAL.

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A  
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - TRANSPORT INFORMATION - - - - -  
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - REGULATORY INFORMATION - - - - -

## EUROPEAN INFORMATION

TOXIC

R 22

HARMFUL IF SWALLOWED.

R 24

TOXIC IN CONTACT WITH SKIN.

R 40

LIMITED EVIDENCE OF CARCINOGENIC EFFECT.

S 36/37

WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.

S 45

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE  
IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).

## REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK

OEL-AUSTRIA: CARCINOGEN, JAN1999

OEL-FRANCE: CARCINOGEN, JAN1993

OEL-GERMANY: CARCINOGEN, JAN1999

NOHS 1974: HZD M1444; NIS 17; TNF 1184; NOS 22; TNE 10114

NOES 1983: HZD M1444; NIS 27; TNF 1191; NOS 24; TNE 19092; TFE 4705

EPA GENETOX PROGRAM 1988, POSITIVE: E COLI POLA WITHOUT S9; S

CEREVISIAE-HOMOZYGOSIS

EPA GENETOX PROGRAM 1988, POSITIVE/LIMITED: CARCINOGENICITY-MOUSE/RAT

EPA GENETOX PROGRAM 1988, NEGATIVE: HISTIDINE REVERSION-AMES TEST

EPA GENETOX PROGRAM 1988, INCONCLUSIVE: SHE-CLONAL ASSAY; MAMMALIAN  
MICRONUCLEUS

EPA TSCA SECTION 8(B) CHEMICAL INVENTORY

EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, JANUARY 2001

SECTION 16. - - - - - OTHER INFORMATION - - - - -

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