ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
WHITESTONE
ACCOUNTS PAYABLE
PO BOX 296
WHITESTONE WI 53190-0296

SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

EMERGENCY PHONE 1-314-771-5765
DATE 08/23/96
CUST#: 2-90/7-94804
PO#: MCD 08/21/96

MATERIAL SAFETY DATA SHEET PAGE 1

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

CATALOG #: D9542
NAME: 4',6-DIAMIDINO-2-PHENYLINDOLE DIHYDROCHLORIDE HYDRATE

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

CAS #: 28718-90-3
MF: C16H15N5
EC NO: 249-186-7

HAZARDOUS INGREDIENTS
CONTAINS ACETONE, CHEMICAL ABSTRACTS REGISTRY NUMBER 67-64-1.

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

LABEL PRECAUTIONARY STATEMENTS
IRRITANT
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
TARGET ORGAN(S): LIVER, KIDNEYS
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING.

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
REMOVE AND WASH CONTAMINATED CLOTHING PROMPTLY.

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

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

SPECIAL FIGHTING 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.

CONTINUED ON NEXT PAGE

We are committed to the success of our customers through science, technology and service.
SECTION 6. ACCIDENTAL RELEASE MEASURES

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, 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.

SECTION 7. HANDLING AND STORAGE

Refer to Section 8.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical safety goggles.
Mechanical exhaust required.
Safety shower and eye bath.
Compatible chemical-resistant gloves.
NIOSH/MSHA-approved respirator.
Do not breathe vapor.
Do not get in eyes, on skin, or on clothing.
Avoid prolonged or repeated exposure.
Wash thoroughly after handling.
Irritant.
Keep tightly closed.
Store in a cool dry place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and odor
Yellow powder

SECTION 10. STABILITY AND REACTIVITY

Stability
Stable.

Incompatibilities
Strong oxidizing agents

Hazardous combustion or decomposition products
Toxic fumes of:
Carbon monoxide, carbon dioxide
Nitrogen oxides
Hydrogen chloride gas

Hazardous polymerization
Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Continued on next page
MATERIAL SAFETY DATA SHEET

CATALOG #: D9542
NAME: 4,6-DIAMIDINO-2-PHENYLINDOLE DIHYDROCHLORIDE HYDRATE

ACUTE EFFECTS
MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION.
CAUSES EYE AND SKIN IRRITATION.
MATERIAL IS IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
CAUSES DERMATITIS.
TARGET ORGAN(S):
LIVER, KIDNEYS
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

SECTION 12. DATA NOT YET AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS

DISOLVE 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
IRRITANT
R 36/37/38
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S 36
WEAR SUITABLE PROTECTIVE CLOTHING.

TLY AND SOURCE
FOR ACETONE:
ACGIH TLV-TWA: 750 PPM (1780 MG/M3); STEL 1000 PPM (2380 MG/M3).
OSHA PEL: 8H TWA 750 PPM (1800 MG/M3); STEL 1000 PPM (2400 MG/M3).

U.S. INFORMATION
MAY CONTAIN UP TO:
1% ACETONE CAS # 67-64-1
THIS PRODUCT IS SUBJECT TO SARA SECTION 313 REPORTING REQUIREMENTS.

SECTION 16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO CONTINUE ON NEXT PAGE

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SIGMA CHEMICAL COMPANY
POST OFFICE BOX 14508
SAINT LOUIS, MISSOURI 63178, USA

CUST#: 2-097-94804
PO#: MCARD 08/21/96

M A T E R I A L  S A F E T Y  D A T A  S H E E T  P A G E  4

CATALOG #: D9542
NAME: 4',6-DIAMIDINO-2-PHENYLINDOLE DIHYDROCHLORIDE HYDRATE

P.O. BOX 355
MILWAUKEE, WISCONSIN 53201, USA

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