



**SynQuest Laboratories, Inc.**  
PO Box 309, Alachua, FL 32616-0309  
Tel. 386/462-0788; FAX 386/462-7097

## **Material Safety Data Sheet**

Transportation Emergency: 1-800-451-8346

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

CATALOG #: 3630-3-42  
NAME: 1,2-DIAMINO-4,5-DIFLUOROBENZENE  
SYNONYMS: 4,5-DIFLUOROPHENYLENE-1,2-DIAMINE; 1,2-DIAMINE-4,5-DIFLUOROBENZENE;  
2-AMINO-4,5-DIFLUOROANILINE; 4,5-DIFLUORO-1,2-PHENYLENEDIAMINE;  
4,5-DIFLUORO-O-PHENYLENEDIAMINE

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

CAS NUMBER: 76179-40-3  
MOLECULAR FORMULA: C<sub>6</sub>H<sub>6</sub>F<sub>2</sub>N<sub>2</sub>  
MOLECULAR WEIGHT: 144.12

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

#### **LABEL PRECAUTIONARY STATEMENTS**

IRRITANT.

IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND

TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

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

#### **IF INHALED**

IF BREATHED IN, MOVE PERSON INTO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION CONSULT A PHYSICIAN.

#### **IN CASE OF SKIN CONTACT**

WASH OFF WITH SOAP AND PLENTY OF WATER. CONSULT A PHYSICIAN.

#### **IN CASE OF EYE CONTACT**

RINSE THOROUGHLY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN.

#### **IF SWALLOWED**

NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. CONSULT A PHYSICIAN.

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

**SUITABLE EXTINGUISHING MEDIA**

USE WATER SPRAY, ALCOHOL-RESISTANT FOAM, DRY CHEMICAL OR CARBON DIOXIDE.  
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

WEAR SELF CONTAINED BREATHING APPARATUS FOR FIRE FIGHTING IF NECESSARY.

**SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----**

**PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

EVACUATE AREA.

**PROCEDURE(S) OF PERSONAL PRECAUTION(S)**

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

**METHODS FOR CLEANING UP**

SWEEP UP AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. VENTILATE AREA AND  
WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

**SECTION 7. ----- HANDLING AND STORAGE-----**

**HANDLING**

USER EXPOSURE: DO NOT BREATHE DUST. DO NOT GET IN EYES, ON  
SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.

**STORAGE**

SUITABLE: KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT AND OPEN  
FLAME.

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

**PERSONAL PROTECTIVE EQUIPMENT**

**RESPIRATORY PROTECTION**

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A  
DUST MASK TYPE N95 (US) OR TYPE P1 (EN 143) RESPIRATOR. USE RESPIRATORS AND  
COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS  
SUCH AS NIOSH (US) OR CEN (EU).

**HAND PROTECTION**

HANDLE WITH GLOVES.

**EYE PROTECTION**

SAFETY GLASSES

**SKIN AND BODY PROTECTION**

CHOOSE BODY PROTECTION ACCORDING TO THE AMOUNT AND CONCENTRATION OF  
THE DANGEROUS SUBSTANCE AT THE WORK PLACE.

**HYGIENE MEASURES**

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.  
WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

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

APPEARANCE AND ODOR

SOLID

PHYSICAL PROPERTIES

MELTING POINT: 131 - 132 °C

**SECTION 10. ----- STABILITY AND REACTIVITY -----**

STORAGE STABILITY

STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

MATERIALS TO AVOID

STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS DECOMPOSITION PRODUCTS FORMED UNDER FIRE CONDITIONS.

CARBON OXIDES, NITROGEN OXIDES (NOX), HYDROGEN FLUORIDE

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**

POTENTIAL HEALTH EFFECTS

INHALATION

MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION.

SKIN

MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION.

EYES

CAUSES EYE IRRITATION.

INGESTION

MAY BE HARMFUL IF SWALLOWED.

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

DATA NOT YET AVAILABLE.

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----**

PRODUCT

OBSERVE ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. CONTACT A LICENSED PROFESSIONAL WASTE DISPOSAL SERVICE TO DISPOSE OF THIS MATERIAL.

CONTAMINATED PACKAGING

DISPOSE OF AS UNUSED PRODUCT.

**SECTION 14. ----- TRANSPORT INFORMATION -----**

DOT

UNRESTRICTED

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

EUROPEAN INFORMATION

CAUTION: SUBSTANCE NOT YET FULLY TESTED.

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.

US INFORMATION

NOT INCLUDED ON TSCA INVENTORY, FOR R&D USE ONLY

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

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SYNQUEST LABS, INC. SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.