

MATERIAL SAFETY DATA SHEET

DeNovix Acridine Orange / Propidium Iodide Dye

VERSION NO.: 1.0
MSDS DATE: 18 JAN 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DeNovix Acridient Orange / Propidium Iodide Dye
PRODUCT CODES: Components 1 of 1 , CD-AO-PI-1.5 or CD-AO-PI-0.25

MANUFACTURER: DeNovix Inc.
ADDRESS: 3411 Silverside Road
Hanby Building 101
Wilmington, DE 19810

PHONE: 1-302-442-6911

PRODUCT USE: For research use only
PREPARED BY: DeNovix Inc.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

COMPONENT N,N,N',N'-Tetramethylacridin-3,6-yl diamine hydrochloride
CLASSIFICATION Not a hazardous substance or mixture.
CAS NO. 10127-02-3
Molecular Weight 301.81 g/mol
Concentration <0.01%

COMPONENT Synonyms :
3,8-Diamino-5-(3-diethylaminopropyl)-6-phenylphenanthridinium iodide methiodide
or Phenanthridinium, 3,8-diamino-5-[3-(diethylmethylammonio)propyl]-6-phenyl- , diiodide
CLASSIFICATION Not a hazardous substance or mixture.

CAS NO. 25535-16-4
Molecular Weight 668.39 g/mol
Concentration <0.01%

SECTION 3: HAZARDS IDENTIFICATION

CLASSIFICATION according to DIRECTIVE 1999/45/EC R-phrase(s)
Not hazardous

CLASSIFICATION according to REGULATION (EC) No 1272/2008
Not hazardous

LABELING, REGULATION (EC) No 1272/2008 CLP

HAZARD PICTOGRAM None

SIGNAL WORD Not hazardous
HAZARD STATEMENT Not hazardous
OTHER HAZARDS None

HMIS CLASSIFICATION:

HEALTH HAZARD 0
FLAMMABILITY 0
PHYSICAL HAZARDS 0

NFPA RATING:

HEALTH HAZARDS 0
FIRE 0
REACTIVITY HAZARDS 0

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE:

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Do NOT induce vomiting. 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 FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCES OR MIXTURE

Carbon oxides, Nitrogen oxides (NO_x), Hydrogen iodide, Hydrogen chloride gas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas. For personal protection see section 8.

ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

REFERENCE TO OTHER SECTIONS

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes and clothing.

CONDITIONS FOR SAFE STORAGE

Protect against light. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 2 – 8°C.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

EYE PROTECTION

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN AND BODY PROTECTION

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

HYGIENE MEASURES

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

APPEARANCE:	Form: liquid
ODOR:	No data available
ODOR TRESHOLD:	No data available
pH:	No data available
BOILING POINT:	100°C
FREEZING POINT:	No data available
FLASH POINT:	No data available
EVAPORATION RATE:	No data available
FLAMMABILITY (solid,gas):	No data available
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	No data available
VAPOR PRESSURE:	No data available
VAPOR DENSITY:	No data available
SPECIFIC GRAVITY:	No data available
SOLUBILITY IN WATER:	Soluble
PARTITION COEFFICIENT: N-OCTANOL/WATER:	No data available
AUTO-IGNITION TEMPERATURE:	No data available
DECOMPOSITION TEMPERATURE:	No data available
VISCOSITY:	No data available
EXPLOSIVE PROPERTIES:	No data available
OXIDIZING PROPERTIES:	No data available

Other safety information

No data available

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under recommended storage conditions.
REACTIVITY:	No data available
POSSIBILITY OF HAZARDOUS REACTIONS:	No data available
CONDITIONS TO AVOID:	No data available
INCOMPATIBLE MATERIALS:	Strong oxidizing agents
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	No data available In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	No data available
SKIN CORROSION/IRRITATION	No data available
SERIOUS EYE DAMAGE/EYE IRRITATION	No data available
RESPIRATORY OR SKIN SENSITATION	No data available
GERM CELL MUTAGENICITY	No data available
CARCINOGENICITY:	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
REPRODUCTIVE TOXICITY	No data available
SPECIFIC TARGET ORGAN TOXICITY - single exposure	No data available
SPECIFIC TARGET ORGAN TOXICITY – repeated exposure	No data available
ASPIRATION HAZARD	No data available
ADDITIONAL INFORMATION	RTECS: Not available

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POTENTIAL HEALTH EFFECTS

INHALATION	May be harmful by inhalation
INGESTION	May be harmful if swallowed
SKIN	May cause skin irritation in susceptible persons
EYES	May cause eye irritation with susceptible persons
INFECTION	May be harmful if injected
MUTAGENIC EFFECTS	Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY	No data available
PERSISTENCE AND DEGRADABILITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
MOBILITY IN SOIL	No data available
PBT and vPvB ASSESSMENT	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
OTHER ADVERSE EFFECTS	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

PRODUCT	Offer surplus and non-recyclable solutions to a licensed disposal company.
CONTAMINATED PACKAGING	Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
No data available

CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. DeNovix Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.