

MATERIAL SAFETY DATA SHEET

DeNovix Acridine Orange Dye

VERSION NO.: 1.0
MSDS DATE: 18 JAN 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DeNovix Acridine Orange Dye
PRODUCT CODES: Component 1 of 1 , CD-AO-1.5

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 CLASSIFICATION N,N,N',N'-Tetramethylacridin-3,6-ylidiamine hydrochloride
Not a hazardous substance or mixture.

CAS NO. 65-61-2
EC NO 200-614-0
Molecular Weight 301.81 g/mol
Concentration <0.01%

SECTION 3: HAZARDS IDENTIFICATION

CLASSIFICATION of the substance or mixture

Not a hazardous substance or mixture.

GHS LABEL ELEMENTS, including precautionary statements

Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE:

Move out of dangerous area.

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.

IN CASE OF EYE CONTACT:

Flush eyes with water as a precaution.

IF SWALLOWED:

Never give anything by mouth to an unconscious person. Rinse mouth with water.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

no data available

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

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ADVICE FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

FURTHER INFORMATION

No date available

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing vapors, mist or gas. For personal protection see section 8.

ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

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. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

CONDITIONS FOR SAFE STORAGE

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

SPECIFIC END USE(S)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

EXPOSURE CONTROLS

Appropriate engineering controls

General industrial hygiene practice

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN 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.

BODY PROTECTION

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

RESPIRATORY PROTECTION

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU).

CONTROL OF ENVIRONMENTAL EXPOSURE

Do not let product enter drains.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Form: liquid
ODOR:	No data available
ODOR THRESHOLD:	No data available
pH:	No data available
MELTING/FREEZING POINT:	No data available
INITIAL BOILING POINT/BOILING RANGE:	No data available
FLASH POINT:	No data available
EVAPOURATION 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
RELATIVE DENSITY:	No data available
WATER SOLUBILITY:	No data available
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

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

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

ACUTE TOXICITY	No data available
OTHER INFORMATION ON 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.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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REPRODUCTIVE TOXICITY	No data available
TERATOGENICITY	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: No data available
POTENTIAL HEALTH EFFECTS	
INHALATION	May be harmful if inhaled. May cause respiratory tract irritation.
INGESTION	May be harmful if swallowed.
SKIN	May be harmful if absorbed through skin. May causes skin irritation.
EYES	May cause eye irritation.
SIGNS AND SYMPTOMS OF EXPOSURE	No data available
SYNERGISTIC EFFECTS	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY	No data available
PERSISTENCE AND DEGRADABILITY	No data available
BIODEGRADATION	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

PRODUCT	Offer surplus and non-recyclable solutions to a licensed disposal company. 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.
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

SARA 302 COMPONENTS	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 COMPONENTS	SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 HAZARDS	Chronic Health Hazard
Massachusetts Right To Know Components	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know Components	
Water	CAS-No. 7732-18-5
	Revision Date

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New Jersey Right To Know Components

Water	CAS-No. 7732-18-5	Revision Date
	65-61-2	

N,N,N',N'-Tetramethylacridin-3,6-ylidiamine hydrochloride

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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.