

MATERIAL SAFETY DATA SHEET

Propidium Iodide Dye

VERSION NO.: 1.0
MSDS DATE: 18 JAN 2019

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Propidium Iodide Dye
PRODUCT CODES: Components 1 of 1 of CD-PI-1.5 or Component 2 of 3 of CD-YEAST-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	Propidium Iodide 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 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

HMIS CLASSIFICATION:		NFPA RATING:	
HEALTH HAZARD	1	HEALTH HAZARDS	1
FLAMMABILITY	0	FIRE	0
PHYSICAL HAZARDS	0	REACTIVITY HAZARDS	0

AQUATIC ACUTE	Acute aquatic toxicity
AQUATIC CHRONIC	Chronic aquatic toxicity
H412	Harmful to aquatic life with long lasting effects.

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.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
No data available

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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 fire fighting if necessary.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

FURTHER INFORMATION

No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust. Remove all sources of ignition.

ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Pick up and arrange disposal without creating dust. Sweep up and shovel. 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. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 4.

CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-Combustible Solids.

SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate engineering controls

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

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE 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 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.

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RESPIRATORY PROTECTION

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

CONTROL OF ENVIRONMENTAL EXPOSURE

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Form: solid
ODOR: No information available
pH: No information available

BOILING POINT: No information available
FREEZING POINT: No information available
VAPOR PRESSURE: No information available
VAPOR DENSITY: No information available
SPECIFIC GRAVITY: No information available

EVAPORATION RATE: No information available
SOLUBILITY IN WATER: No information 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

CHEMICAL STABILITY

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

No data available

CONDITIONS TO AVOID

No data available

INCOMPATIBLE MATERIALS

No data available

HAZARDOUS DECOMPOSITION PRODUCTS

Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: No data available

ACUTE TOXICITY

No data available
Inhalation: No data available
Dermal: 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.

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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.

REPRODUCTIVE TOXICITY No data available
TERATOGENICITY No data available
SPECIFIC TARGET ORGAN TOXICITY - single exposure (Globally Harmonized System) No data available
SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (Globally Harmonized System) No data available
ASPIRATION HAZARD No data available
ADDITIONAL INFORMATION RTECS: No data available

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

PRODUCT Do not dispose product into sewage. Consult local, state or national regulation for proper disposal.
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

OSHA HAZARDS No data available
SARA 302 COMPONENTS SARA 302: No chemicals found.
SARA 313 COMPONENTS SARA 313: No chemicals found.
SARA 311/312 HAZARDS
Acute Health Hazard - Yes
Chronic Health Hazard - No
Fire Hazard - Yes
Sudden Release of Pressure Hazard - No
Reactive Hazard - No

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

Disodium hydrogenorthophosphate CAS-No.: 7558-79-4 Revision Date 2007-03-01

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

Sodium chloride CAS-No.: 7647-14-5 Revision Date 2007-03-01
Potassium chloride CAS-No.: 7447-40-7
Disodium hydrogenorthophosphate CAS-No.: 7558-79-4 Revision Date 2007-03-01

NEW JERSEY RIGHT TO KNOW COMPONENTS

Sodium chloride CAS-No.: 7647-14-5 Revision Date 2007-03-01

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Potassium chloride CAS-No.: 7447-40-7
Disodium hydrogenorthophosphate CAS-No.: 7558-79-4

Revision Date 2007-03-01

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.