Propidium iodide

MATERIAL SAFETY DATA SHEET
According to the Directive 91/155EEC and 2001/58/EC

1. Product and Company identification

Product code(s): IQP-121

Product name: Propidium iodide available as 100 test

Manufacturer: IQ Products BV, Rozenburglaan 13a, 9727 DL Groningen, The Netherlands
☎ +31 (0)50 57 57 000 🖷 +31 (0)50 57 57 002
E-mail: marketing@iqproducts.nl www.iqproducts.nl

2. Hazard Identification

3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
Skin irritation (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)
Classification according to EU Directives 67/548/EEC or 1999/45/EC
Irritating to eyes, respiratory system and skin.

3.2 Other hazards - none

3.3 General warnings and precautions

All reagents should be handled in accordance with good laboratory practices using appropriate precautions. In addition, handle all patient samples with appropriate precautions as described in "Biosafety in Microbial and Biomedical Laboratories", 2nd ed., 1988. HHS Publication No. (CDC) 88-8395, Centers for Disease Control.

3. Composition / Information on ingredients

Information on ingredients
There are no reported further health hazards for the product in the current formulation and applications. All components of the product contain substances that may be hazardous when available in significant amounts and should be treated as potentially biohazardous.

Kit Components
Propidium iodide: CAS-No. 25535-16-4

Substances
Synonyms: 3,8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-phenylphenanthridinium diiodide
Formula: C27H34I2N4
Molecular Weight: 668.39 g/mol

4. First Aid Measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance
Skin contact: Wash off with soap and plenty of water for 15 minutes, remove contaminating clothing and shoes and seek medical advice.
Eye contact: Rinse out with plenty of water for 15 minutes and seek medical advice.
Ingestion: Wash mouth with plenty of water for 15 minutes and seek medical advice.
Inhalation: Expose to fresh air. If breathing problems persist seek medical advice.
Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Fire-fighting Measures

Extinguishing Media: Use carbon dioxide, dry chemical extinguisher, alcohol-resistant foam or water.
Protective Equipment: An approved self-contained breathing apparatus and protective clothing should be used.
Special Fire and Explosion Hazards: No special hazards determined.
Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), hydrogen iodide.

6. Accidental Release Measures

Use appropriate personnel protective equipment and standard safe laboratory practices to clean up spilled substance promptly. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation, Evacuate personnel to safe areas. Avoid breathing dust. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling Precautions: 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.

Storage Conditions: Product is stable if stored according to appropriate conditions until the expiration date as indicated on the label and on each component provided. Storage conditions recommended: +2 to +8 °C. Do not freeze. Avoid direct sunlight. Keep container tightly closed in dry and well ventilated place. Light sensitive, hygroscopic.

8. Exposure controls and personal protection

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

Personal Protection: Wear appropriate gloves, protective clothing, respiratory protection and eyewear and follow safe laboratory practices. Under normal conditions, the use of this product should not require respiratory protection.

9. Physical/Chemical characteristics

The product is a solid form with a melting point/range of 220 - 225 °C.

Odor, Specific Gravity, Boiling Point, Flash Point, Density and Vapor Pressure are not determined.

10. Stability and Reactivity

Stability: Stable under normal temperatures and pressures.

Hazardous Incompatibilities: strong oxidizing agents.

Hazardous Decomposition Products:
When stored as labeled, no known hazardous decomposition products are formed during the shelf life of this product.

Conditions to Avoid: Keep away from incompatible material.

11. Toxicological information

Acute Toxicity: Quantitative data on the toxicity of this product are not available.
LD50 Intravenous - mouse – 16 mg/kg.

Subacute to chronic toxicity: No information available.

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
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.
Additional Information	RTECS: SF7949600.
Further data:	The product has to be handled with the usual caution.

12. Ecological information

The complete ecological properties of the product have not been investigated and are expected to be non-hazardous. However, the product contains substances that may cause problems when available in significant amounts. No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal considerations

Product: There are no uniform EC regulations for the disposal if chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advice you on how to dispose of special waste.

Contaminated Packaging: Dispose in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not classified as hazardous under RID/ADR regulations.

15. Regulatory information

Label elements
Labeling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram: 

Signal word: Warning

Hazard statement(s):
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s):
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard: none

Statements: **According to European Directive 67/548/EEC as amended**

Hazard symbol(s): 

R-phrase(s):
R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s):
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other information

The information presented in this Material Safety Data Sheet is based on the present state of our knowledge. The product should be used according to the instructions provided by the manufacturer, as presented in the Product Information Sheet accompanying every product. *IQ Products BV* shall not be held liable for any damage resulting from handling or from contact with the product. See for additional information "General Terms and Conditions" of *IQ Products BV* (available on request or via our websites).