A MATERIAL SAFETY DATA SHEET

PROPIDIUM IODIDE

1.1 Product Identifiers:

Product Name : Propidium Iodide

CAS No : 25535-16-4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Supplier: Infinium Pharmachem Pvt. Ltd. (AN ISO 9001:2008 CERTIFIEDCO.)

38, G.I.D.C, Sojitra

Dist: ANAND

Gujarat, India

Tel : 0091-2697-234987

Fax : 0091-2697-234987

Email : info@infiniumpharmachem.com

Synonyms : 3, 8-Diamino-5-[3-(diethylmethylammonio)propyl]-6-phenylphenanthridinium diiodide
CAS No. : 25535-16-4
Molecular Weight : 668.39 g/mol
Chemical Formula : C_{27}H_{34}I_{2}N_{4}

3.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Skin irritation (Category 2), H315
Eye irritation (Category 2), H319
Germ cell mutagenicity (Category 2), H341
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC
Xi Irritant R36/37/38
Xn Harmful R68
For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Label elements
Labeling according Regulation (EC) No 1272/2008

Pictogram

Signal word Warning
Hazard statement(s)
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335  May cause respiratory irritation.
H341  Suspected of causing genetic defects.

Precautionary statement(s)

P261  Avoid breathing dust.
P281  Use personal protective equipment as required
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 Statements  None

3.3 Other hazards
None

4.1 Description of 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
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most Important symptoms & efforts, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 3.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5.1 Extinguishing Media:

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

5.2 Special hazards arising from the substance or mixture

Hydrogen Iodide, Carbon oxides, nitrogen oxides (NOx)

5.3 Advice for firefighters

Wear self contained breathing apparatus for fighting if necessary.

5.4 Further Information

Use water spray to cool unopened containers.

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

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

6.3 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.

6.4 Reference to other sections

For disposal see section 13
7.1 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.

7.2 Conditions for safe Storage, including any incompatibilities

Protect against light. Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended temperature: 2-8 °C

7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8.1 Control parameters

Components with workplace control Parameters.

8.2 Exposure Controls

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.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

9.1 Information on Basic physical & chemical properties

a) Appearance
b) Odor
c) Odor Threshold
d) pH
e) Melting point/freezing Point
f) Initial boiling point and Boiling range
g) Flash point
h) Evaporation rate
i) Flammability (solid, gas)
j) Upper/lower Flammability or explosive limits
k) Vapor pressure
l) Vapor density
m) Relative density
n) Water solubility
o) Partition coefficient: n-octanol/water
p) Auto ignition Temperature
q) Decomposition Temperature
r) Viscosity
s) Explosive properties
t) Oxidizing properties

9.2 Other safety Information

No data available
10.1 Reactivity
no data available

10.2 Chemical stability
May decompose on exposure to moist air or water.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
no data available

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

11.1 Information on toxicological effects

Acute toxicity
no data available
LD50 Subcutaneous - mouse - 16 mg/kg

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
In vitro tests showed mutagenic effect

**Carcinogenicity**

IARC: No component of this product presents 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: SF7949600

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

**12.1 Persistence and degradability**

no data available

**12.2 Bioaccumulative potential**

no data available

**12.3 Mobility in soil**

no data available

**12.4 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
12.5 Toxicity

no data available

12.6 Other adverse effects

No data available

13.1 Waste treatment methods

Product

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

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -         IMDG: -         IATA: -

14.2 UN proper shipping name

ADR/RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3 Transport hazard class (es)

ADR/RID: -         IMDG: -         IATA: -

14.4 Packaging group

ADR/RID: -         IMDG: -         IATA: -

14.5 Environmental hazards

ADR/RID: no         IMDG Marine pollutant: no         IATA: no

14.6 Special precautions for user

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.        Eye irritation
H315            Causes skin irritation.
H319            Causes serious eye irritation.
H335            May cause respiratory irritation.
H341            Suspected of causing genetic defects.
Mut.             Germ cell mutagenicity
Skin Irrit.      Skin irritation
STOT SE          Specific target organ toxicity - single exposure

Full text of R-phrases referred to under sections 2 and 3

Xn              Harmful
R36/37/38       Irritating to eyes, respiratory system and skin.
R68             Possible risk of irreversible effects.

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Disclaimer:

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