



Safety Data Sheet

Propidium Iodide

SDS-10290

Rev. Number: 3 Rev. Date: Nov 13, 2020

1. Identification of the substance/mixture and of the company/undertaking

Product Description:	Product Code
Propidium iodide	5930-0008 (71-04-01)

Product Description	No further relevant information
Application of the substance / the mixture	Industry Specific Application

Hazardous Reagent

Hazardous Reagent Product code

Recommended Use: Reference Reagent

Contact Manufacturer: SeraCare Life Sciences
910 Clopper Road
Gaithersburg, MD 20878

Phone #: (508) 244-6400
US Toll Free: (800) 676-1881

Fax #: (508) 634-3394

Web: www.seracare.com

Email: customerservice@seracare.com

Emergency Telephone Numbers:

AUSTRALIA – POISONS INFORMATION CENTER

Telephone: 13 11 26 - Hours: 24 hours

CANADIAN TRANSPORT EMERGENCY CENTER

Telephone: (1) 613 996 6666 - Hours: 24 hours/day,
7 days/week

UK – THE NATIONAL FOCUS

Telephone: (44) 029 2041 6388 - Hours: 09:00-17:00 GMT

USA - NATIONAL RESPONSE CENTER

Telephone: (1) 800 424 8802 - Hours: 24 hours/day,
7 days/week

CHEMTREC:

CHEMTREC Customer Number: - CCN12505*
For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 CCN12505 or
+1 703-527-3887 (collect calls accepted)

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2. Hazards identification

Classification of the substance or mixture



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage



Eye Irrit. 2A H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05 GHS07 GHS08

Signal word: Danger

Hazard-determining components of labelling:

3,8-Diamino-5-(3-(diethylmethylammonio)propyl)-6-phenylphenanthridinium diiodide

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye irritation.

H341 Suspected of causing genetic defects. H335 May cause respiratory irritation.

Precautionary Statements:

P201 Obtain special instructions before use.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.


P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:	Hazard(s) not otherwise classified (HNOC):
Contains 0 % of components with unknown hazards to the aquatic environment.	
2.3 Other hazards: None known	
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.

3. Composition/information on ingredients

Chemical characterization:	Mixtures	
Description:	Mixture of substances listed below with nonhazardous additions	
Dangerous components:		
CAS: 25535-16-4 EINECS: 247-081-0	3,8-Diamino-5-(3-(diethylmethylammonio)propyl)-6-phenylphenanthridiniumdiiodid  Skin Irrit. 2, H315; STOT SE 3, H335	90-100%

Additional information: For the wording of the listed hazard phrases refer to section 16.

4. First aid measures

Description of first aid measures

General information:	Consult a physician. Show this safety data sheet to the doctor in attendance.
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Wash off with soap and plenty of water. Consult a physician.
After eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
After swallowing:	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	No further relevant information available.
Indication of any immediate medical attention and special treatment needed	No further relevant information available

5. Firefighting measures

Extinguishing media Suitable extinguishing agents:	Use fire fighting measures that suit the environment.
Special hazards arising from the substance or mixture	Carbon oxides, Nitrogen oxides (NOx), Hydrogen iodide
Advice for firefighters Protective equipment:	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Not required.
Environmental precautions:	Dilute with plenty of water.
Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the material collected according to regulations.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information

7. Handling and storage

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Information about protection against explosion and fires: No special measures required.
Conditions for safe storage, including any incompatibilities	Information about storage in one common storage facility: Not required. Recommended storage temperature 2 - 8 °C Further information about storage conditions: Keep receptacle tightly sealed.
Storage:	Requirements to be met by storerooms and receptacles: No special requirements.
Specific end use(s)	No further relevant information available.

8. Exposure controls/personal protection

Additional information about design of technical systems: No further data; see section 7.

Control parameters	Components with occupational exposure limits: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: The lists that were valid during the creation of this SDS were used as basis.
Exposure controls:	The usual precautionary measures for when handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.
Personal protective equipment:	
General protective and hygienic measures:	Avoid contact with the eyes and skin.
Breathing Equipment:	Have self-contained breathing apparatus, positive pressure, MSHA/NIOSH (approved or equivalent) available in case of spillage or equipment failure.
Protection of hands:	



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select the glove material based on the penetration times, rates of diffusion and degradation.

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Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber

Penetration time of glove material: Not applicable.

Eye protection:



Safety glasses with side shields

Body protection:

Impervious protective clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid
Color: Red
Odor: Odorless

pH-value: Not applicable.

Change in condition

Melting point/freezing point: 220-225 °C
Initial boiling point and boiling range: Not determined.

Flash point: None.

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not applicable

Decomposition temperature: Not determined.

Auto: Not determined

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
Upper: Not determined.

Vapor pressure: Not determined.

Density:

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:

VOC content: 0.00 %

Solids content: 0.0 %

9.2 Other information

No further relevant information available.

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10. Stability and reactivity

Reactivity:	No further relevant information available
Chemical stability:	May decompose on exposure to moist air or water. Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No further relevant information available.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	No dangerous decomposition products known.

11. TOXICOLOGY MEASURES

Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Primary irritant effect:	
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage/irritation	Corrosive effect. Causes serious eye irritation. Causes serious eye damage.
Sensitisation:	Based on available data, the classification criteria are not met.
Additional toxicological information:	Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):	
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT (Specific target organ toxicity)-single exposure	May cause respiratory irritation.
STOT (Specific target organ toxicity)-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met

12. Ecological information

Aquatic toxicity:	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.

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Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects No further relevant information available

13. Disposal considerations

Waste treatment methods

Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

**Recommended
cleansing agents:** Water, if necessary together with cleansing agents.

14. Transport information

14.1 UN-Number ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
14.2 UN proper shipping name ADR/ADN, ADN, IMDG, IATA	Non-Regulated Material
14.3 Transport hazard class(es) ADR/ADN, ADN, IMDG, IATA Class	Non-Regulated Material
14.4 Packing group ADR/ADN, IMDG, IATA	Non-Regulated Material
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Stowage Category	Not applicable. B
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code UN "Model Regulation":	Not applicable. Non-Regulated Material

15. REGULATORY MEASURES

**Safety, health and
environmental
regulations/legislation
specific for the
substance or mixture
Directive 2012/18/EU** Substance is not listed.

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Named dangerous substances - ANNEX I REGULATION (EC) No 1907/2006 ANNEX XVII National regulations:

Substance is not listed.

Conditions of restriction: 3

The product is not subject to be labeled according with the prevailing version of the regulations on hazardous substances.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

The above information is believed to be accurate, complete and current but does not purport to be all inclusive and shall be used as a guide. SeraCare Life Sciences makes no representation or warranties with respect to the product described herein, including but not limited to any implied warranties or merchantability or fitness for a particular use. SeraCare assumes no liability or responsibility and authorizes no other person to assume any additional liability or responsibility as a result of the use of this product or the information contained in the Safety Data Sheet.

Abbreviations and acronyms:

ADR: The Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A Muta. 2: Germ cell mutagenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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