

Material Safety Data Sheet according to EC 1907/2006

Trade name: Propidium Iodide

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the preparation:

Identification on the label / trade name: Propidium Iodide
Additional identification: 2% Propidium Iodide solution

1.2 Use of the preparation:

Propidium Iodide solution is used to stain cells.

1.3 Company/undertaking identification:

Bender MedSystems GmbH
Campus Vienna Biocenter 2
1030 Vienna, Austria
phone: +43 1 796 40 40 100
fax: +43 1 796 40 40 400
E-Mail: europa@ebioscience.com

Information contact: europa@ebioscience.com

National contact: Customer Service

1.4 EMERGENCY TELEPHONE:

phone: +43 1 796 40 40 100 (Austria)
phone: +1 (888) 999 1371 (USA)
These phone numbers are available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Hazards description:

Causes irritation of eyes, skin and respiratory system.

2.1.1 Classification:

Regulation (EC) No 1272/2008 [CLP]	
Hazard classes/Hazard categories	Hazard statement
Causes irritation on skin	H315
Causes irritation on eyes	H319
Causes irritation of respiratory system	H335

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Bender MedSystems GmbH
Campus Vienna Biocenter 2
1030 Vienna, Austria
phone: +43 (1) 796 40 40-0
fax: +43 (1) 796 40 40-400

tech@ebioscience.com
europa@ebioscience.com
www.bendermedsystems.com

+ USA

eBioscience, Inc.
10255 Science Center Drive
San Diego, CA 92121
technical support: +1 (888) 810 6168
customer service: +1 (888) 999 1371
fax: +1 (858) 642 2046

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67/548/EEC or 1999/45/EC	
Hazards characteristics	R-Phrases
Xi	R36, R38, R53

2.1.2 Remark:

Full text of H- and R-phrases: see section 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Preparation / mixture related informations

Description: Mixture of mentioned below ingredients:

3.2 Ingredients:

Chemical name	EC-No	Index-No	CAS-No	Amount (%)	Classification according Regulation (EC) No 1272/2008 [CLP]		Classification according 67/548/EEC
					Hazard class/ Hazard categories	Hazard-statement	
Propidium iodide	247-081-0	No data	25535-16-4	-	3.1/ Cat. 4 3.2/ Cat 2 3.3/ Cat 2	H302,H312,H332,H315 HH319	Xn;Xi;R36/37/38, R20/21/22
Dest. ater	231-791-2	No data	7732-18-5	-	-	-	-
NaCl	231-598-3	No data	7647-14-5	-	-	-	-
HEPES	230-907-9	No data	7365-45-9	-	-	-	-
CaCl2	233-140-8	017-013-00-2	10043-52-4	-	3.3/ Cat 2	H319	Xi; R36

4. FIRST AID MEASURES

4.1 General informations:

In case of indisposition contact a doctor, show this datasheet.

4.2 In case of skin contact:

Wash affected bodyparts with plenty amount of water. Consult a doctor.

4.3 In case of eye contact:

Wash the affected eye with water for a minimum of 10 minutes.

In case of indisposition contact an eye-specialist.

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4.4 In case of ingestion:

Immediately wash your mouth with plenty of water.
Consult a doctor.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Water, dry powder extinguisher, carbondioxid

5.2 Extinguishing media which must not be used for safety reasons:

Attention with dry powder extinguisher.
It's not appropriate for in door fire because raised foam causes lack of sight.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

In case of fire, despite flue gas also dangerous, product specific gases might be produced. Because of the very low concentration of this mixture it is very unlikely that oxides will be produced in a hazardous amount.
Further data are not known.

5.4 Special protective equipment for fire-fighters:

In case of heavy smoke a respirator shall be used.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions:

In case of spilled mixture safety gloves have to be worn to prevent skin contact.
In case of big amounts an additional inhalation protection is recommended.

6.2 Environmental precautions:

Mixture must not discard in sewage system/ residual waste.
Dilute residues cautiously with water and clean it up with a paper towel.

6.3 Methods for cleaning up:

Spilled mixture can be cleaned up with a paper towel an discarded in an appropriate waste.
Afterwards clean bench with water.

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7. HANDLING AND STORAGE

7.1 Handling

Advices on safe handling:

Protective measures: wear protective clothing

Precautions against fire and explosion:

Development of explosive atmosphere is not possible

7.2 Storage

Technical measures and storage conditions:

Storage in well closed containers

Packaging materials:

Store in lightproof containers

Requirements for storage rooms and vessels:

Prevent direct sunlight and heat.

Store in well aired storage rooms.

Further information on storage conditions:

Storage temperature: 2 – 8 °C

Storage stability: stable

Maximal storage periode: see product packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values:

8.1.1 Components with occupational exposure limits requiring monitoring:

No data available

8.2 Personal protection equipment:

Respiratory protection: not necessary

Hand protection: disposable protective gloves

Eye protection: not necessary

Body protection: lab coat, lab shoes

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Physical state: liquid
Colour: red
Odour: odourless

9.2 Important health, safety and environmental information

9.2.1 Safety relevant data

	Value	Remark
pH (20 °C):	no data	
Melting point (°C):	no data	
Boiling point (°C):	no data	
Ignition temperature (°C):	no data	
Vapour pressure (°C):	no data	
Density (g/cm ³):	no data	
Water solubility:	no data	
Viscosity, dynamic (mPa s):	no data	
Explosion limits:	-	mixture is not explosive

10. STABILITY AND REACTIVITY

stable under mentioned storage conditions

10.1 Conditions to avoid:

Direct sunlight, high temperature

10.2 Materials to avoid:

No data available

10.3 Hazardous decomposition products:

No data available

Because of the low acid concentration in the mixture, no hazardous gases are expected.

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11. TOXICOLOGICAL INFORMATION

11.2 Acute effects (toxicity tests)

25535-16-4 Propidium Iodide	Effect dose	Species
Acute oral toxicity	LD50 = 16 mg/kg	mouse
Acute dermal toxicity	no data	
Acute inhalative toxicity	no data	

Specific symptoms in animal studies:

No data available

Irritant and corrosive effects:

No data available

Sensitisation

In case of skin contact: no data

In case of inhalation: no data

Repeated dose toxicity (sub-acute, sub-chronic, chronic)

No data available

CMR effects

(carcinogenicity, mutagenicity and toxicity for reproduction)

No CMR effects

12. Ecological information

12.1 Ecotoxicity:

No data available

12.2 Mobility:

Known or predicted distribution to environmental compartments:

In case of shifting the pH value there might be some damaging effects for aquatic organism.

The mixture must not dispose in the sewage system without pre-treatment.

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13. DISPOSAL CONSIDERATIONS

13.1 Appropriate disposal / Product:

All national and local laws have to be considered. This product is only allowed to be discarded by a licensed waste management company.

13.2 Waste codes / waste designations according to EWC / AVV (Austria):

Medical waste: Waste code: 97101

In other countries different conditions might be valid. All national and local laws have to be considered.

13.3 Appropriate packaging:

Rinse container with water, dispose as the product.

14. TRANSPORT INFORMATION

Official transport designation: Propidium Iodide

Because product is no dangerous good, no specific codes or labels are necessary.

15. REGULATORY INFORMATION

15.1 EU regulations

Labelling (Regulation (EC) No 1272/2008)

Hazard components for labelling: Propidium Iodide

Signal words: Attention

Hazard pictograms: GHS07



Hazard statements: H315, H319, H335

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Precautionary statements: P261, P351, P338

16. OTHER INFORMATION

16.1 Relevant R-, H- and P-phrases:

H315: Causes skin irritation
H319: Causes serious eye irritation
H335 Causes irritation to respiratory system
R36: Irritating to eyes
R37: Irritation to respiratory system
R38: Irritating to skin
P261: Avoid breathing dust/fume/gas/mist/vapours/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.

16.2 Training instructions: no data

16.4 Data sources:

BDI Helpdesk Germany), ECHA, GESTIS (IFA)

16.5 Further information:

The above information has been assembled to the best of our knowledge but might not be complete.

Bender MedSystems GmbH can not be held liable for any damages resulting from handling with the product

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