

## 1 - Identification of the preparation and company

Trade name: Gill's hematoxylin No. 3  
 Manufacturer: Bio Optica Milano S.p.A. • via San Faustino 58 • I - 20134 Milano - Tel. +39-02212713.1 - email: info@bio-stain.it  
 Emergency Tel. : Please contact the nearest Tossicology and Antivenin Center  
 Product code: 05-M06015,05-06015/L,05-06015E,05-06015Q  
 Use of substance/preparate: In vitro medical-diagnostic disposable. Reagent for microscopy.

## 2 - Hazards identification

Preparation not classified as dangerous to EC Directives.

## 3 - Composition/information on ingredients

### Hazardous ingredients

CAS	EC No.	Index No.	Classification of pure substances	%
<u>Aluminum sulfate</u>				
7784-31-8	233-135-0	/	Xn; R20/21/22	<25
<u>Acetic acid</u>				
64-19-7	200-580-7	607-002-00-6	C; R35 R10	<10
<u>Hematoxylin (C.I. 75290)</u>				
517-28-2	208-237-3	/	Xi; R36/37/38	< 1

It has been determined that the remaining ingredients are Not Classified as Hazardous (see technical data sheet)

## 4 - First-aid measures

Inhalation: Fresh air  
 Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes - call a physician  
 Skin contact: Wash off with soap and water. Remove contaminated clothes.  
 Ingestion: Rinse out mouth with water - call a physician

## 5 - Fire fighting measures

Suitable extinguishing media: Water spray  
 Special exposure hazards: Non combustible.

## 6 - Accidental release measures

Person-related safety protection: Avoid contact with eyes and skin. Wear suitable personal protective equipment.  
 Measures for environmental protection: Avoid sewerage system contamination.  
 Measures for cleaning/collecting: Absorb on sand or inert absorbent materials. Put away the contaminated material in special containers and discharge as special waste. Clean up affected area with water.

## 7 - Handling and storage

Handling: Not required.  
 Storage: Store in a cool dry and ventilated area. Keep away from light. Keep container tightly closed

## 8 - Exposure controls / personal protection

Exposure limits: /  
 Respiratory protection: No special measures required.  
 Eye protection: /  
 Skin protection: Latex or chemical resistant gloves  
 Devices have to be appropriated to risks and to existing work conditions.

## 9 - Physical and chemical properties

Appearance: liquid  
 Odour: typical acetic acid odour

pH: /  
Flash point: /  
Boiling point: /  
Vapour pressure: /  
Water solubility: soluble  
Solvent solubility: /

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## 10 - Stability and reactivity

### Conditions/substances to avoid:

Photosensitive. Avoid strong oxidizing agents.

### Hazardous decomposition products:

Data not available

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## 11 - Toxicological information

### Acute effects:

Toxicological informations are not reported as the preparation does not cause toxicological hazards.

### Chronic effects:

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### Carcinogenicity:

Not classifiable as to carcinogenicity to humans.

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## 12 - Ecological information

**Biodegradability:** Data not available

**Ecotoxicity:** No ecological problems are to be expected when the product is handled and used with due care and attention.

Use according to good laboratory practices, avoiding the dispersion of the product in the environment.  
Avoid sewerage system contamination.

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## 13 - Disposal considerations

Observe all state and local environmental regulations regarding waste disposal.

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## 14 - Transport information

### Land transport (ADR/RID):

ONU number: Not subject to regulation  
Class: /  
Proper shipping name: /  
Packing group: /

### Maritime transport (IMDG):

Numero ONU: Not subject to regulation  
Class: /  
Proper shipping name: /  
Packing group: /  
Marine pollutant: No  
EmS: /

### Air transport (IATA):

Numero ONU: Not subject to regulation  
Class: /  
Proper shipping name: /  
Packing group: /

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## 15 - Regulatory information

Labelling according to EC directives

Hazard symbol:

Contains:

R and S phrases:

R/-

S/- /

2008/58/EC 21 august 2008 directive

Hazard labelling according to 2004/73/EC directive

Waste labelling according to 75/442/EEC, 91/689/EEC directives

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**16 - Other information**

This data sheet replaces all the previous editions.

Date of issue: 13/02/09

References:

ECDIN - Environment Chemicals Data and Information Network

RTECS - Registry of Toxic Effects of Chemical Substances reference Number

Reason for alteration : general update

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.  
Bio-Optica S.p.A. shall not be held liable for any damage resulting from an inaccurate and illegal handling.

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## 1 - Identification of the preparation and company

**Trade name:** IW3 - Isaac Wurch  
**Manufacturer:** Bio Optica Milano S.p.A. • via San Faustino 58 • I - 20134 Milano - Tel. +39-02212713.1 - email: info@bio-stain.it  
**Emergency Tel. :** Please contact the nearest Toxicology and Antivenin Center  
**Product code:** 05-M12021,05-12021/L  
**Use of substance/preparate:** In vitro medical-diagnostic disposable. Reagent for microscopy.

## 2 - Hazards identification

Preparation classified as Hazardous.  
Highly flammable.

## 3 - Composition/information on ingredients

### Hazardous ingredients

CAS	EC No.	Index No.	Classification of pure substances	%
<u>Ethanol</u>				
64-17-5	200-578-6	603-002-00-5	F; R11	80

It has been determined that the remaining ingredients are Not Classified as Hazardous (see technical data sheet)

## 4 - First-aid measures

**Inhalation:** Fresh air  
**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes - call a physician  
**Skin contact:** Wash off with soap and water. Remove contaminated clothes.  
**Ingestion:** Rinse out mouth with water - call a physician

## 5 - Fire fighting measures

**Suitable extinguishing media:** Dry powder, foam, carbon dioxide.  
**Special exposure hazards:** In case of fire the product may develop dangerous combustion gases or vapours. Wear self-contained respiratory equipment.

## 6 - Accidental release measures

**Person-related safety protection:** Keep away from sources of ignition. Wear suitable personal protective equipment. Wear self-contained breathing apparatus.  
**Measures for environmental protection:** Avoid sewerage system contamination.  
**Measures for cleaning/collecting:** Absorb on sand or inert absorbent materials. Put away the contaminated material in special containers and discharge as special waste. Clean up affected area with water.

## 7 - Handling and storage

**Handling:** Keep away from sources of ignition.  
**Storage:** Keep tightly closed, store in a well ventilated place at 15-25°C. Keep away from sources of ignition.

## 8 - Exposure controls / personal protection

**Exposure limits:** Ethanol: TLV/TWA 1000 ppm  
**Respiratory protection:** Use only in well-ventilated place.  
**Eye protection:** Goggles or face-shield  
**Skin protection:** Latex or chemical resistant gloves

Devices have to be appropriated to risks and to existing work conditions.

## 9 - Physical and chemical properties

**Appearance:** liquid  
**Odour:** typical ethanol odour

pH: /  
Flash point: 20°C  
Boiling point: /  
Vapour pressure: /  
Water solubility: soluble  
Solvent solubility: Soluble

## 10 - Stability and reactivity

### Conditions/substances to avoid:

Avoid high temperature which cause evaporation. The fumes are easily flammable. Avoid strong oxidizing agents, alkali metals, peroxides.

### Hazardous decomposition products:

Data not available

## 11 - Toxicological information

### Acute effects:

Data on the toxicity of this product are not available. The following information refers to each component which is responsible of the solution toxicity.

ETHANOL - EYE-CONTACT: may cause irritant effects. INHALATION: high concentrations of vapours may cause irritation to mucous membranes and upper respiratory tract. Risk of absorption. INGESTION: large quantities may cause effects on the CNS with headache, somnolence and inebriation.

### Chronic effects:

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### Carcinogenicity:

Not classifiable as to carcinogenicity to humans.

## 12 - Ecological information

**Biodegradability:** It is easily biodegradable.

**Ecotoxicity:** In high concentrations: harmful effect on aquatic organisms. *Lidus* LC50: 8140mg/l/48h; *Daphnia* EC50: 9268-14221 mg/l 48h.

Use according to good laboratory practices, avoiding the dispersion of the product in the environment. Avoid sewerage system contamination.

## 13 - Disposal considerations

Observe all state and local environmental regulations regarding waste disposal.

## 14 - Transport information

### Land transport (ADR/RID):

ONU number: 1170  
Class: 3, F1  
Proper shipping name: Ethanol solution  
Packing group: II

### Maritime transport (IMDG):

Numero ONU: 1170  
Class: 3, F1  
Proper shipping name: Ethanol solution  
Packing group: II  
Marine pollutant: No  
EmS: F-E,S-D

### Air transport (IATA):

Numero ONU: 1170  
Class: 3, F1  
Proper shipping name: Ethanol solution  
Packing group: II

## 15 - Regulatory information

Labelling according to EC directives

Hazard symbol: HIGHLY FLAMMABLE



Contains:

F

R and S phrases:

R11- Highly flammable.

S7-16 Keep container tightly closed. Keep away from sources of ignition - No smoking.

2009/2/EC 15 January 2009 directive

Hazard labelling according to 2004/73/EC directive

Waste labelling according to 75/442/EEC, 91/689/EEC directives

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## 16 - Other information

This data sheet replaces all the previous editions.

Date of issue: 08/07/10

References:

ECDIN - Environment Chemicals Data and Information Network

RTECS - Registry of Toxic Effects of Chemical Substances reference Number

Reason for alteration : general update

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.  
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## 1 - Identification of the preparation and company

Trade name: UNYHOL  
 Manufacturer: Bio Optica Milano S.p.A. • via San Faustino 58 • I - 20134 Milano - Tel. +39-02212713.1 - email: info@bio-stain.it  
 Emergency Tel. : Please contact the nearest Toxicology and Antivenin Center  
 Product code: 06-10071E,06-10071Q  
 Use of substance/preparate: In vitro medical-diagnostic disposable. Reagent for microscopy.

## 2 - Hazards identification

Preparation classified as Hazardous.

Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

## 3 - Composition/information on ingredients

### Hazardous ingredients

CAS	EC No.	Index No.	Classification of pure substances	%
<u>Ethanol</u>				
64-17-5	200-578-6	603-002-00-5	F; R11	< 40
<u>2-Propanol</u>				
67-63-0	200-661-7	603-117-00-0	F; Xi; R11-36-67	> 60

It has been determined that the remaining ingredients are Not Classified as Hazardous (see technical data sheet)

## 4 - First-aid measures

Inhalation: Fresh air - call a physician  
 Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes - call a physician  
 Skin contact: Wash off with plenty of water. Remove contaminated clothes.  
 Ingestion: Rinse out mouth with water - call a physician

## 5 - Fire fighting measures

Suitable extinguishing media: Dry powder, foam, carbon dioxide.  
 Special exposure hazards: In case of fire the product may develop dangerous combustion gases or vapours. Wear self-contained respiratory equipment.

## 6 - Accidental release measures

Person-related safety protection: Keep away from sources of ignition. Wear suitable personal protective equipment. Wear self-contained breathing apparatus.  
 Measures for environmental protection: Avoid sewerage system contamination.  
 Measures for cleaning/collecting: Absorb on sand or inert absorbent materials. Put away the contaminated material in special containers and discharge as special waste. Clean up affected area with water.

## 7 - Handling and storage

Handling: Keep away from sources of ignition. Take measures to prevent the build up of electrostatic charges. Do not inhale the vapours. Avoid the contact with eyes and skin.  
 Storage: Store in a cool dry and ventilated area. Keep away from light. Keep container tightly closed

## 8 - Exposure controls / personal protection

Exposure limits: Ethanol: TLV/TWA 1000 ppm; 2-Propanol: TLV-TWA 200 ppm  
 Respiratory protection: Use in a well-ventilated place. Avoid prolonged breathing of vapour, if necessary use mask for vapour of organic compounds.  
 Eye protection: Goggles or face-shield  
 Skin protection: Latex or chemical resistant gloves  
 Devices have to be appropriated to risks and to existing work conditions.

## 9 - Physical and chemical properties

Appearance: clear  
Odour:  
pH: /  
Flash point: 12°C  
Boiling point: /  
Vapour pressure: >42 hPa a 20°C  
Water solubility: soluble  
Solvent solubility: Soluble in the main organic solvents

## 10 - Stability and reactivity

### Conditions/substances to avoid:

Avoid high temperature which cause evaporation. Avoid strong oxidizing agents.

### Hazardous decomposition products:

Formation of carbon monoxide, carbon dioxide or vapours possible in event of fire.

## 11 - Toxicological information

### Acute effects:

*Data on the toxicity of this product are not available. The following information refers to each component which is responsible of the solution toxicity.*

INHALATION: may cause slight irritation to upper respiratory tract. The product contains highly volatile substances which may cause depression of NCS with effects like sleepiness, dizziness and dulness. INGESTION: may cause stomachache with burning sensation, nausea and vomiting. EYE-CONTACT: may cause irritation, pain and lacrimation. SKIN-CONTACT: may cause slight irritation.

### Chronic effects:

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### Carcinogenicity:

Not classifiable as to carcinogenicity to humans.

## 12 - Ecological information

**Biodegradability:** It is easily biodegradable.

**Ecotoxicity:** Data not available

Use according to good laboratory practices, avoiding the dispersion of the product in the environment.  
Avoid sewerage system contamination.

## 13 - Disposal considerations

Observe all state and local environmental regulations regarding waste disposal.

## 14 - Transport information

### Land transport (ADR/RID):

ONU number: 1987  
Class: 3  
Proper shipping name: Alcohols, n.o.s. (ethanol, 2-propanol)  
Packing group: II

### Maritime transport (IMDG):

Numero ONU: 1987  
Class: 3  
Proper shipping name: Alcohols, n.o.s. (ethanol, 2-propanol)  
Packing group: II  
Marine pollutant: No  
EmS: F-E,S-D

### Air transport (IATA):

Numero ONU: 1987  
Class: 3  
Proper shipping name: Alcohols, n.o.s. (ethanol, 2-propanol)



Packing group: II

## 15 - Regulatory information

Labelling according to EC directives

Hazard symbol: HIGHLY FLAMMABLE -  
IRRITANT



Contains:

F Xi

R and S phrases:

R11-36-67 Highly flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

S7-16-24/25-26 Keep container tightly closed. Keep away from sources of ignition - No smoking.  
Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2009/2/EC 15 January 2009 directive

Hazard labelling according to 2004/73/EC directive

Waste labelling according to 75/442/EEC, 91/689/EEC directives

## 16 - Other information

This data sheet replaces all the previous editions.

Date of issue: 05/11/09

References:

ECDIN - Environment Chemicals Data and Information Network

RTECS - Registry of Toxic Effects of Chemical Substances reference Number

Reason for alteration : general update

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## 1 - Identification of the preparation and company

**Trade name:** Bio Clear  
**Manufacturer:** Bio Optica Milano S.p.A. • via San Faustino 58 • I - 20134 Milano - Tel. +39-02212713.1 - email: info@bio-stain.it  
**Emergency Tel. :** Please contact the nearest Tossicology and Antivenin Center  
**Product code:** 06-1782D,06-1782Q  
**Use of substance/preparate:** In vitro medical-diagnostic disposable. Reagent for microscopy.

## 2 - Hazards identification

Preparation classified as Hazardous.

Flammable. Irritating to skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 - Composition/information on ingredients

### Hazardous ingredients

<i>CAS</i>	<i>EC No.</i>	<i>Index No.</i>	<i>Classification of pure substances</i>	<i>%</i>
<u>D-Limonene</u>				
5989-27-5	227-813-5	601-029-00-7	Xi; N; R10-38-43-50/53	100

It has been determined that the remaining ingredients are Not Classified as Hazardous (see technical data sheet)

## 4 - First-aid measures

**Inhalation:** Fresh air - rest - call a physician  
**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes - call a physician  
**Skin contact:** Wash off with soap and water. Remove contaminated clothes.  
**Ingestion:** No induce vomiting. Call immediately a physician.

## 5 - Fire fighting measures

**Suitable extinguishing media:** Dry powder, foam, carbon dioxide.  
**Special exposure hazards:** Avoid breathing fumes. In case of fire to cool with water if container become heated. Wear self-contained respiratory equipment.

## 6 - Accidental release measures

**Person-related safety protection:** Keep away from sources of ignition. Wear suitable personal protective equipment. Wear self-contained breathing apparatus.  
**Measures for environmental protection:** Avoid sewerage system contamination.  
**Measures for cleaning/collecting:** Absorb on sand or inert absorbent materials. Put away the contaminated material in special containers and discharge as special waste. Clean up affected area with water.

## 7 - Handling and storage

**Handling:** Use in a well-ventilated place. Do not inhale the vapours. Take measures to prevent the build up of electrostatic charges. Avoid the contact with eyes and skin.  
**Storage:** Store in a cool dry and ventilated area. Keep away from light. Keep container tightly closed

## 8 - Exposure controls / personal protection

**Exposure limits:** TLV: undefined  
**Respiratory protection** Use only in well-ventilated place.  
**Eye protection** /  
**Skin protection** Latex or chemical resistant gloves  
Devices have to be appropriated to risks and to existing work conditions.

## 9 - Physical and chemical properties

Appearance: liquid  
Odour: typical  
pH: /  
Flash point: 48°C  
Boiling point: 178°C  
Vapour pressure: 0,19 kPa a 20°C  
Water solubility: insoluble  
Solvent solubility: Miscible in alcohol and ether

## 10 - Stability and reactivity

### Conditions/substances to avoid:

Stable under normal conditions. Avoid strong oxidizing agents.

### Hazardous decomposition products:

It doesn't cause polymerization processis.

## 11 - Toxicological information

### Acute effects:

Data on the toxicity of this product are not available. The following information refers to each component which is responsible of the solution toxicity.

D-LIMONENE - INHALATION: causes irritation of the upper respiratory tract. EYE/SKIN-CONTACT:may cause eyes and skin irritation.

### Chronic effects:

Prolonged exposure may cause skin sensibilization.

### Carcinogenicity:

Not classifiable as to carcinogenicity to humans.

## 12 - Ecological information

Biodegradability: Data not available

Ecotoxicity: Toxic for aquatic organism. May cause bioaccumulation in fishes.

Use according to good laboratory practices, avoiding the dispersion of the product in the environment.  
Avoid sewerage system contamination.

## 13 - Disposal considerations

Observe all state and local enviromental regulations regarding waste disposal.

## 14 - Transport information

### Land transport (ADR/RID):

ONU number: 2319  
Class: 3, F1  
Proper shipping name: Terpene Hydrocarbons, n.o.s. (D-Limonene)  
Packing group: III

### Maritime tranport (IMDG):

Numero ONU: 2319  
Class: 3, F1  
Proper shipping name: Terpene Hydrocarbons, n.o.s. (D-Limonene)  
Packing group: III  
Marine pollutant: Yes  
EmS: F-E,S-D

### Air transport (IATA):

Numero ONU: 2319  
Class: 3, F1  
Proper shipping name: Terpene Hydrocarbons, n.o.s. (D-Limonene)  
Packing group: III

## 15 - Regulatory information

Labelling according to EC directives

Hazard symbol: IRRITANT - DANGEROUS  
FOR THE ENVIRONMENT



Contains:

Xi N

R and S phrases:

R10-38-43-50/53 Flammable. Irritating to skin. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S24-37-60-61 Avoid contact with skin. Wear suitable gloves. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety data sheets.

2009/2/EC 15 January 2009 directive

Hazard labelling according to 2004/73/EC directive

Waste labelling according to 75/442/EEC, 91/689/EEC directives

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## 16 - Other information

This data sheet replaces all the previous editions.

Date of issue: 05/11/09

References:

ECDIN - Environment Chemicals Data and Information Network

RTECS - Registry of Toxic Effects of Chemical Substances reference Number

Reason for alteration : general update

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Bio-Optica S.p.A. shall not be held liable for any damage resulting from an inaccurate and illegal handling.

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