



SAFETY DATA SHEET

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Date : 26 / 4 / 2016

Supersedes : 27 / 5 / 2014

Hydrogen peroxide**300980**

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

1.1. Product identifier

Trade name : Hydrogen peroxide

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

Use : In vitro diagnostic medical device.
For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS
Site Montesquieu
33650 MARTILLAC FRANCE
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: commercial@ral-diagnostics.fr

1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

• Health hazards : Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms

• Hazard pictograms : GHS05
• Signal words : Danger
• Hazard statements : H318 - Causes serious eye damage.
H315 - Causes skin irritation.

• Precautionary statements

• Prevention : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention.

2.3. Other hazards

Other hazards : None under normal conditions.

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SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

This product is not considered to be hazardous but contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
Hydrogen peroxide	ca 3 %	7722-84-1	231-765-0	008-003-00-9	----	Ox. Liq. 1;H271 Not CLP Eye Dam. 1;H318 Acute Tox. 4 (Inhalation);H332 Acute Tox. 4 (Oral);H302

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Seek medical attention if ill effect or irritation develops.
- **Eye contact** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Ingestion** : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

- **Inhalation** : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Skin contact** : Causes skin irritation.
- **Eye contact** : Causes serious eye damage. Redness, pain. Blurred vision. Tears.
- **Ingestion** : Must not come into contact with food or be consumed. No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

No significant hazards.

5.3. Advice for fire-fighters

- Flammable class : Not flammable.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

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SECTION 6. Accidental release measures (continued)

6.4. Reference to other sections

See Heading 8.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep container closed when not in use.

7.3. Specific end use(s)

Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection



- **Respiratory protection**
- **Hand protection**

: Not required.
: Gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In full:

Material: nitrile rubber.

Minimum thickness: 0.10 mm. Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

In the event of splashes:

Material: nitrile rubber.

Minimum thickness: 0.10 mm. Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.

- **Skin protection**

: Wear suitable protective clothing. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.

- **Eye protection**

: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Ingestion**

: When using, do not eat, drink or smoke.

- **Industrial hygiene**

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.
Colour : Colourless.

9.1.b. Odour

Odourless.

9.1.c. Odour threshold

No data available.

9.1.d. pH

No data available.

9.1.e. Melting point / Freezing point

No data available.

9.1.f. Initial boiling point - boiling range

No data available.

9.1.g. Flash point

No data available.

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

No data available.

9.1.n. Solubility

No data available.

9.1.o. Partition coefficient : n-octanol / water

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Physico-chemical stability : Stable in normal temperature and pressure conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

Hydrogen peroxide

: Rabbit-rat dermal [mg/kg/24 hours] : > 2000

: Rat oral LD50 [mg/kg] : 15802 - 16844

: Mouse oral LD50 [mg/kg] : 2000

: Rat inhalation LC50 [mg/m³/4h] : 2000

• Skin corrosion/irritation

: Causes skin irritation.

• Serious eye damage/irritation

: Causes serious eye damage.

• Respiratory or skin sensitisation

: No data available.

• Germ cell mutagenicity

: No data available.

• Carcinogenicity

: No data available.

• Reproductive toxicity

: No data available.

• STOT-single exposure

: No data available.

• STOT-repeated exposure

: No data available.

• Aspiration hazard

: No data available.

• Potential effects on health

: No data available.

• Signs and symptoms of exposure

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

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SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Hydrogen peroxide

: LC50-96 Hour - fish [mg/l] : (Pimephales promelas) 16.4

: 24 H-LC50 - Daphnia magna [mg/l] : 7.7

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not release to the environment.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

• UN No. : Unregulated.

14.2. UN proper shipping name

• Proper shipping name : Unregulated.

14.3. Transport hazard class(es)

• Hazard Label(s) : Unregulated.

• Class : Unregulated.

- H.I. nr : Unregulated.

• Classification code : Unregulated.

14.4. Packing group

• ADR Packing group : Unregulated.

• IMO Packing group : Unregulated.

• IATA Packing group : Unregulated.

14.5. Environmental hazards

• IMDG-Marine pollution : Unregulated.

14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : Unregulated.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Hydrogen peroxide**300980****SECTION 14. Transport information (continued)**

Not applicable.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16. Other information

H Substances ' sentences' text : H271 - May cause fire or explosion; strong oxidizer
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.

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Further information : Product intended for professional use only.

The contents and format of this SDS are in accordance with REGULATION (EC) No 453/2010 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL.

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DOMINIQUE DUTSCHER SAS



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Formalin / Ethanol solution

310850

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

1.1. Product identifier

Trade name : Formalin / Ethanol solution

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

Use : In vitro diagnostic medical device.
For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS
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33650 MARTILLAC FRANCE
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: commercial@ral-diagnostics.fr

1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

- Health hazards : Acute toxicity, dermal - Category 4 - Warning - (CLP : Acute Tox. 4) - H312
Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318
Skin sensitisation - Category 1 - Warning - (CLP : Skin Sens. 1) - H317
Carcinogenicity - Category 2 - Warning - (CLP : Carc. 2) - H351
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 -
Warning (CLP : STOT SE 3)
- Physical hazards : Flammable liquids - Category 2 - Danger - (CLP : Flam. Liq. 2) - H225

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms : GHS02 - GHS05 - GHS08 - GHS07

• Signal words : Danger

• Hazard statements : H225 - Highly flammable liquid and vapour
H318 - Causes serious eye damage.
H351 - Suspected of causing cancer.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.

• Precautionary statements

• Prevention : P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P281 - Use personal protective equipment as required- Response : P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical
advice / attention.
P309+311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

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SECTION 2 Hazards identification (continued)

- Storage : P403+233 - Store in a well-ventilated place. Keep container tightly closed

2.3. Other hazards

Other hazards : None under normal conditions.

SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
Formaldehyde	ca 5 %	50-00-0	200-001-8	605-001-00-5	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 Skin Corr. 1B;H314 Eye Dam. 1;H318 Carc. 2;H351 STOT SE3;H335 Skin Sens. 1;H317
Ethanol	ca 80 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- Inhalation : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- Skin contact : Rinse immediately with plenty of water. Seek medical attention if ill effect or irritation develops.
- Eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

- Inhalation : Irritating to respiratory system. Danger of serious damage to health by prolonged exposure through inhalation.
- Skin contact : Harmful. May cause sensitization by skin contact. Exposure to this material can result in absorption through skin causing some health hazard.
- Eye contact : Causes serious eye damage. Redness, pain. Blurred vision. Tears.
- Ingestion : Must not come into contact with food or be consumed. Swallowing a small quantity of this material presents some health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : When mixed with air and exposed to ignition source, can burn in open air or explode if confined.

5.3. Advice for fire-fighters

Flammable class : Highly flammable.

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SECTION 5. Fire-fighting measures (continued)

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
Prevention : Keep away from sources of ignition. No smoking.
Special procedures : Exercise caution when fighting any chemical fire.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions** : Wear suitable respiratory equipment. Equip cleanup crew with proper protection.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- After spillage and/or leakage** : Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

- See Heading 8.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

- General** : Store and handle as though always a serious potential fire/explosion and health hazard exists. Keep away from sources of ignition - No Smoking.
Handling : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

- Storage** : Keep bottles closed when not in use. Store in dry, cool, well-ventilated area. Keep away from heat.

7.3. Specific end use(s)

- Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

On ingredients

- : Ethanol : VLE - France [mg/m³] : indicative 9500
Ethanol : VLE - France [ppm] : indicative 5000
Ethanol : VME - France [ppm] : indicative 1000
Ethanol : VME - France [mg/m³] : indicative 1950
Ethanol : VME - Unated States [ppm] : indicative 1000
Ethanol : VME - Unated States [mg/m³] : indicative 1880
Ethanol : VME - Germany [ppm] : indicative 500
Ethanol : VME - Germany [mg/m³] : indicative 960
Formaldehyde : VLE - France [ppm] : 1
Formaldehyde : VLE - France [mg/m³] : 1.23
Formaldehyde : VME - France [ppm] : 0.5
Formaldehyde : VME - France [mg/m³] : 0.61
Formaldehyde : VLE - Unated States [ppm] : 0.3
Formaldehyde : VLE - Unated States [mg/m³] : 0.37

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SECTION 8. Exposure controls/personal protection (continued)

Formaldehyde : VME - Germany [ppm] : 0.3
Formaldehyde : VME - Germany [mg/m³] : 0.37

8.2. Exposure controls

Personal protection



• Respiratory protection

: Suitable respiratory equipment. Use a full-face cartridge combination (U.S.) or type ABEK (EN 14387). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

• Hand protection

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

In full:

Material: nitrile rubber.

Minimum thickness: 0.56mm.

Break through time: Not tested.

Material tested: SOL-VEX® (Ansell 37-185).

In the event of splashes:

Material: nitrile rubber.

Minimum thickness: 0.10 mm.

Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.

• Skin protection

: Wear suitable protective clothing.

• Eye protection

: Safety glasses.

• Ingestion

: When using, do not eat, drink or smoke.

Industrial hygiene

: Provide good ventilation in process area to prevent formation of vapour. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.

Colour : Colourless.

9.1.b. Odour

Odourless.

9.1.c. Odour threshold

No data available.

9.1.d. pH

No data available.

9.1.e. Melting point / Freezing point

No data available.

9.1.f. Initial boiling point - boiling range

No data available.

9.1.g. Flash point

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SECTION 9. Physical and chemical properties (continued)

Flash point [°C] : < 21

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

Density : 0.79-0.90

9.1.n. Solubility

No data available.

9.1.o. Partition coefficient : n-octanol / water

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Physico-chemical stability : Stable in normal temperature and pressure conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : May release flammable gases.

Hazardous properties : In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid**RAL DIAGNOSTICS**

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SECTION 10. Stability and reactivity (continued)

Conditions to avoid : Open flame. Sparks. Overheating.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

Formaldehyde

: Rabbit dermal LD50 [mg/kg] : 270

: Rat oral LD50 [mg/kg] : 800

: Rat inhalation LC50 [ppm/4h] : 480

Ethanol

: Rat oral LD50 [mg/kg] : 5000 - 20000

: Rat inhalation LC50 [ppm/4h] : 20000 - 30000

: Mouse oral LD50 [mg/l/4h] : 20

• Skin corrosion/irritation

: Causes skin irritation.

• Serious eye damage/irritation

: Causes serious eye damage.

• Respiratory or skin sensitisation

: May cause respiratory irritation. May cause an allergic skin reaction.

• Germ cell mutagenicity

: No data available.

• Carcinogenicity

: Suspected of causing cancer.

• Reproductive toxicity

: No data available.

• STOT-single exposure

: No data available.

• STOT-repeated exposure

: No data available.

• Aspiration hazard

: No data available.

• Potential effects on health

: Harmful in contact with skin.

• Signs and symptoms of exposure

: No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Formaldehyde

: LC50-96 Hour - fish [mg/kg] : (Lepomis gibbosus) 40

: 24 Hour-LC50 - Daphnia magna [mg/kg] : 42

Ethanol

: LC50-96 Hour - fish [mg/l] : 11000

: 48 H-LC50 - Daphnia magna [mg/l] : 9268 - 14221

: 48 H-CE50 - Algae [mg/l] : 5000

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

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SECTION 12. Ecological information (continued)

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Avoid discarding in the environment.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal

: Dispose of this material and its container at hazardous or special waste collection point.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

• UN No. : 1987

14.2. UN proper shipping name

• Proper shipping name : ALCOHOLS, N.O.S. (Ethanol solution)

14.3. Transport hazard class(es)

• Hazard Label(s)



• Class : 3: Flammable liquids

- H.I. nr : 33

• Classification code : F1

14.4. Packing group

• ADR Packing group : II

• IMO Packing group : II

• IATA Packing group : II

14.5. Environmental hazards

• IMDG-Marine pollution : Yes

14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : F-E - S-D

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16. Other information

H Substances ' sentences' text : H225 - Highly flammable liquid and vapour
H301 - Toxic if swallowed
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.

Revision : 9

Print date : 20 / 4 / 2016

Further information : Product intended for professional use only.

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Alphanaphtol solution

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

1.1. Product identifier

Trade name : Alphanaphtol solution

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

Use : In vitro diagnostic medical device.
For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS
Site Montesquieu
33650 MARTILLAC FRANCE
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: commercial@ral-diagnostics.fr

1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

- Health hazards : Eye irritation - Category 2A - Warning - (CLP : Eye Irrit. 2) - H319
- Physical hazards : Flammable liquids - Category 2 - Danger - (CLP : Flam. Liq. 2) - H225

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



- Hazard pictograms : GHS02 - GHS07
- Signal words : Danger
- Hazard statements : H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation.

• Precautionary statements

- Prevention : P280 - Wear eye protection/face protection.
P233 - Keep container tightly closed
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- Response : P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards : None under normal conditions.

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SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
1-naphtol	: ca 1 %	90-15-3	201-969-4	604-029-00-5	----	Eye Dam. 1;H318 Acute Tox. 4 (Dermal);H312 Acute Tox. 4 (Oral);H302 Skin Irrit. 2;H315 STOT SE3; H335
Ethanol	: > 90 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- Inhalation : If overcome by exposure, remove victim to fresh air immediately.
- Skin contact : Seek medical attention if ill effect or irritation develops.
- Eye contact : Rinse with water. Seek medical attention if irritation develops.
- Ingestion : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

- Inhalation : Symptoms of overexposure to vapours include : Headache.
- Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eye contact : Eye irritant upon direct contact.
- Ingestion : Ingestion may cause nausea, vomiting and diarrhea. Must not come into contact with food or be consumed.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards : When mixed with air and exposed to ignition source, can burn in open air or explode if confined.

5.3. Advice for fire-fighters

- Flammable class : Highly flammable.
- Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
- Prevention : Keep away from sources of ignition. No smoking.
- Special procedures : Exercise caution when fighting any chemical fire.

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SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable respiratory equipment. Equip cleanup crew with proper protection.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Remove ignition sources. Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

See Heading 8.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

General : Store and handle as though always a serious potential fire/explosion. Keep away from sources of ignition - No Smoking.

Handling : Handle in accordance with appropriate industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Keep away from food, drink and animal feeding stuffs. When using do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep bottles closed when not in use. Store in dry, cool, well-ventilated area. Keep away from heat.

7.3. Specific end use(s)

Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

On ingredients : Ethanol : VLE - France [mg/m³] : indicative 9500
Ethanol : VLE - France [ppm] : indicative 5000
Ethanol : VME - France [ppm] : indicative 1000
Ethanol : VME - France [mg/m³] : indicative 1950
Ethanol : VME - Unated States [ppm] : indicative 1000
Ethanol : VME - Unated States [mg/m³] : indicative 1880
Ethanol : VME - Germany [ppm] : indicative 500
Ethanol : VME - Germany [mg/m³] : indicative 960
1-naphtol : TLV-TWA [mg/m³] : Latvia : 0.5
1-naphtol : TLV-TWA [mg/m³] : Lithuania : 0.5
1-naphtol : TLV-TWA [mg/m³] : Romania : 10 (8 h)
1-naphtol : MAC [mg/m³] : Russia : 0.5

8.2. Exposure controls

Personal protection



• Respiratory protection

: In case of insufficient ventilation, wear suitable respiratory equipment. Use a full-face cartridge type A (EN 14387). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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SECTION 8. Exposure controls/personal protection (continued)

- **Hand protection**
 - : Gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
 - In full:
 - Material: nitrile rubber.
 - Minimum thickness: 0.10 mm. Break through time: Not tested.
 - Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).
 - In the event of splashes:
 - Material: nitrile rubber.
 - Minimum thickness: 0.10 mm. Break through time: Not tested.
 - Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).
 - Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.
- **Skin protection**
 - : Wear suitable protective clothing. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.
- **Eye protection**
 - : Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Ingestion**
 - : When using, do not eat, drink or smoke.
- **Industrial hygiene**
 - : Provide good ventilation in process area to prevent formation of vapour. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

- Physical state : Liquid.
- Colour : Colourless to amber.

9.1.b. Odour

- Odour : Alcohol.

9.1.c. Odour threshold

No data available.

9.1.d. pH

No data available.

9.1.e. Melting point / Freezing point

No data available.

9.1.f. Initial boiling point - boiling range

No data available.

9.1.g. Flash point

No data available.

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.i. Vapour density

No data available.

9.1.m. Relative density

No data available.

9.1.n. Solubility

No data available.

9.1.o. Partition coefficient : n-octanol / water

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Physico-chemical stability : Stable in normal temperature and pressure conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : May release flammable gases.

Hazardous properties : In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid

Conditions to avoid : Open flame. Overheating. Sparks.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

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SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity**On ingredients**

Ethanol	: Rat oral LD50 [mg/kg] : 5000 - 20000 : Rat inhalation LC50 [ppm/4h] : 20000 - 30000 : Mouse oral LD50 [mg/l/4h] : 20
1-naphtol	: Rabbit dermal LD50 [mg/kg] : 880 : Rat oral LD50 [mg/kg] : 1870 : Rat inhalation LC50 [mg/m ³ /1h] : 420
Sources of key data used	: INRS and ESIS
• Skin corrosion/irritation	: No data available.
• Serious eye damage/irritation	: Causes serious eye irritation.
• Respiratory or skin sensitisation	: No data available.
• Germ cell mutagenicity	: No data available.
• Carcinogenicity	: No data available.
• Reproductive toxicity	: No data available.
• STOT-single exposure	: No data available.
• STOT-repeated exposure	: No data available.
• Aspiration hazard	: No data available.
• Potential effects on health	: Ingestion may cause nausea, vomiting and diarrhea.
• Signs and symptoms of exposure	: No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Ethanol	: LC50-96 Hour - fish [mg/l] : 11000 : 48 H-LC50 - Daphnia magna [mg/l] : 9268 - 14221 : 48 H-CE50 - Algae [mg/l] : 5000
1-naphtol	: LC50-96 Hour - fish [mg/l] : 0.75 - 3.57

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not release to the environment.

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SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal

: Dispose of this material and its container at hazardous or special waste collection point.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

• UN No. : 1170

14.2. UN proper shipping name

• Proper shipping name : ETHANOL SOLUTION

14.3. Transport hazard class(es)

• Hazard Label(s)



• Class : 3: Flammable liquids
- H.I. nr : 33
• Classification code : F1

14.4. Packing group

• ADR Packing group : II
• IMO Packing group : II
• IATA Packing group : II

14.5. Environmental hazards

• IMDG-Marine pollution : No

14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : F-E - S-D

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not applicable.

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Alphanaphtol solution**320750****SECTION 16. Other information**

H Substances ' sentences' text : H225 - Highly flammable liquid and vapour
H302 - Harmful if swallowed
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

Revision : 7

Print date : 20 / 4 / 2016

Further information : Product intended for professional use only.

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Mayer haematoxylin**361620**

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

1.1. Product identifier

Trade name : Mayer haematoxylin

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

Use : In vitro diagnostic medical device.
For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS
Site Montesquieu
33650 MARTILLAC FRANCE
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: commercial@ral-diagnostics.fr

1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

• Health hazards : Acute toxicity, Oral - Category 4 - Warning - (CLP : Acute Tox. 4) - H302

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms

• Hazard pictograms : GHS07
• Signal words : Warning
• Hazard statements : H302 - Harmful if swallowed

• Precautionary statements

- Response : P301+312 - If swallowed, call a doctor if you feel unwell.

2.3. Other hazards

Other hazards : None under normal conditions.

SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
Potash alum	ca 5 %	7784-24-9	----	----	----	Not classified. (GHS)
Haematoxylin pure	< 1 %	517-28-2	208-237-3	----	----	Not classified. (GHS)
Chloral hydrate	ca 5 %	302-17-0	206-117-5	605-014-00-6	----	Acute Tox. 3 (Oral);H301 Eye Irrit. 2;H319 Skin Irrit. 2;H315

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Mayer haematoxylin**361620**

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Flush with plenty of water. Seek medical attention if ill effect or irritation develops.
- **Eye contact** : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
- **Ingestion** : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

- **Inhalation** : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Skin contact** : Not expected to present a significant skin hazard.
- **Eye contact** : Redness, pain. Blurred vision. Tears.
- **Ingestion** : Harmful if swallowed. Swallowing a small quantity of this material presents some health hazard. Must not come into contact with food or be consumed.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

No significant hazards.

5.3. Advice for fire-fighters

- Flammable class** : Not flammable.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special procedures** : Exercise caution when fighting any chemical fire.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Equip cleanup crew with proper protection. Wear suitable respiratory equipment.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

See Heading 8.

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Mayer haematoxylin

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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep bottles closed when not in use.

7.3. Specific end use(s)

Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection



• **Respiratory protection**

: Not required.

• **Hand protection**

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

In full:

Material: nitrile rubber.

Minimum thickness: 0.10 mm. Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

In the event of splashes:

Material: nitrile rubber.

Minimum thickness: 0.10 mm. Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.

• **Skin protection**

: Wear suitable protective clothing. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.

• **Eye protection**

: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

• **Ingestion**

: When using, do not eat, drink or smoke.

Industrial hygiene

: Provide good ventilation in process area to prevent formation of vapour. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.
Colour : Purplish red.

9.1.b. Odour

Odourless.

9.1.c. Odour threshold

No data available.

9.1.d. pH

No data available.

9.1.e. Melting point / Freezing point

No data available.

9.1.f. Initial boiling point - boiling range

No data available.

9.1.g. Flash point

No data available.

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

Density : 1.03-1.05

9.1.n. Solubility

No data available.

9.1.o. Partition coefficient : n-octanol / water

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Physico-chemical stability : Stable in normal temperature and pressure conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

Chloral hydrate : Rabbit-rat dermal [mg/kg/24 hours] : 3030

: Rat oral LD50 [mg/kg] : 479

Haematoxylin pure : Rat oral LD50 [mg/kg] : 400• **Skin corrosion/irritation** : No data available.• **Serious eye damage/irritation** : No data available.• **Respiratory or skin sensitisation** : No data available.• **Germ cell mutagenicity** : No data available.• **Carcinogenicity** : No data available.• **Reproductive toxicity** : No data available.• **STOT-single exposure** : No data available.• **STOT-repeated exposure** : No data available.• **Aspiration hazard** : No data available.• **Potential effects on health** : Harmful if swallowed• **Signs and symptoms of exposure** : No data available.

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SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Chloral hydrate

: LC50-48 Hour - fish [mg/l] : (Leuciscus idus (Ide)) 1720

: 48 H-LC50 - Daphnia magna [mg/l] : 500

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not release to the environment.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal

: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

• UN No. : Unregulated.

14.2. UN proper shipping name

• Proper shipping name : Unregulated.

14.3. Transport hazard class(es)

• Hazard Label(s) : Unregulated.

• Class : Unregulated.

- H.I. nr : : Unregulated.

• Classification code : Unregulated.

14.4. Packing group

• ADR Packing group : Unregulated.

• IMO Packing group : Unregulated.

• IATA Packing group : Unregulated.

14.5. Environmental hazards

• IMDG-Marine pollution : Unregulated.

14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : Unregulated.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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Mayer haematoxylin**361620****SECTION 14. Transport information (continued)**

Not applicable.

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16. Other information

H Substances ' sentences' text : H301 - Toxic if swallowed
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

Revision : 6

Print date : 25 / 4 / 2016

Further information : Product intended for professional use only.

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Pyronin, 0.2% in aqueous solution**361800**

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

1.1. Product identifier

Trade name : Pyronin, 0.2% in aqueous solution

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

Use : In vitro diagnostic medical device.
For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS
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33650 MARTILLAC FRANCE
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www.ral-diagnostics.com
Email: commercial@ral-diagnostics.fr

1.4. Emergency telephone number

Emergency phone nr : ORFILA : +33 (0) 1 45 42 59 59

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Not regulated.

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

- Hazard pictograms : None.
- Signal words : None.
- Hazard statements : None.
- Precautionary statements

None.

2.3. Other hazards

Other hazards : None under normal conditions.

SECTION 3 Composition/information on ingredients

Substance / Preparation : Preparation.

This product is not considered to be hazardous but contains hazardous components.

Substance name	Value(s)	CAS nr	EINECS nr	EC index	REACH	Classification
Pyronin Y	0.2 %	92-32-0	202-147-8	-----	----	Muta. 2:H341

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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Seek medical attention if ill effect or irritation develops.
- **Eye contact** : Rinse with water. Seek medical attention if irritation develops.
- **Ingestion** : Rinse mouth. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

- **Inhalation** : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Skin contact** : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **Eye contact** : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- **Ingestion** : Must not come into contact with food or be consumed. No significant signs or symptoms indicative of any adverse health hazard are expected to occur as a result of ingestion.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Extinguishing media : Powder. Carbon dioxide. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

No significant hazards.

5.3. Advice for fire-fighters

- Flammable class** : Not flammable.
- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Equip cleanup crew with proper protection.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage : Clean up any spills as soon as possible, using an absorbent material to collect it. Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

See Heading 8.

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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle in accordance with appropriate industrial hygiene and safety procedures. Keep away from food, drink and animal feeding stuffs. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep container closed when not in use.

7.3. Specific end use(s)

Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

No data available.

8.2. Exposure controls

Personal protection



• **Respiratory protection**

: Not required.

• **Hand protection**

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

In full:

Material: nitrile rubber.

Minimum thickness: 0.10 mm.

Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

In the event of splashes:

Material: nitrile rubber.

Minimum thickness: 0.10 mm.

Break through time: Not tested.

Proposed equipment : Touch N Tuff® (Ansell 92-500 ou 92-670).

Source of data: Ansell Healthcare Europe N.V., Riverside Business Park, Block J, Boulevard International 55, B-1070 Brussels, Belgium, Tel. +32 (0)2 528 74 00, e-mail : info@ansell.eu.

• **Skin protection**

: Wear suitable protective clothing. Choose body protection in relation to the dangerousness of the product, its concentration and the amounts used depending on the workstation.

• **Eye protection**

: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

• **Ingestion**

: When using, do not eat, drink or smoke.

Industrial hygiene

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.
Colour : Red.

9.1.b. Odour

No data available.

9.1.c. Odour threshold

No data available.

9.1.d. pH

No data available.

9.1.e. Melting point / Freezing point

No data available.

9.1.f. Initial boiling point - boiling range

No data available.

9.1.g. Flash point

No data available.

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

No data available.

9.1.n. Solubility

No data available.

9.1.o. Partition coefficient : n-octanol / water

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Physico-chemical stability : Stable in normal temperature and pressure conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

- **Acute toxicity** : No data available.
- **Skin corrosion/irritation** : No data available.
- **Serious eye damage/irritation** : No data available.
- **Respiratory or skin sensitisation** : No data available.
- **Germ cell mutagenicity** : No data available.
- **Carcinogenicity** : No data available.
- **Reproductive toxicity** : No data available.
- **STOT-single exposure** : No data available.
- **STOT-repeated exposure** : No data available.
- **Aspiration hazard** : No data available.
- **Potential effects on health** : Not expected to present a significant hazard under anticipated conditions of normal use.
- **Signs and symptoms of exposure** : To our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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SECTION 12. Ecological information

12.1. Toxicity

No data available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Not release to the environment.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

• UN No. : Unregulated.

14.2. UN proper shipping name

• Proper shipping name : Unregulated.

14.3. Transport hazard class(es)

• Hazard Label(s) : Unregulated.
• Class : Unregulated.
- H.I. nr : Unregulated.
• Classification code : Unregulated.

14.4. Packing group

• ADR Packing group : Unregulated.
• IMO Packing group : Unregulated.
• IATA Packing group : Unregulated.

14.5. Environmental hazards

• IMDG-Marine pollution : Unregulated.

14.6. Special precautions for user

Emergency action in case of accident

• IMO-IMDG code : FS : Unregulated.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

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SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ensure all national/local regulations are observed.

15.2. Chemical Safety Assessment

Not applicable.

SECTION 16. Other information

H Substances ' sentences' text : H341 - Suspected of causing genetic defects.
Revision : 6
Print date : 26 / 4 / 2016
Further information : Product intended for professional use only.

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