



SAFETY DATA SHEET

Page : 1 / 8

Revision nr : 8

Date : 25 / 4 / 2016

Supersedes : 17 / 6 / 2015

Mayer haemalum**320550**

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

1.1. Product identifier

Trade name : Mayer haemalum

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
Acute toxicity, Inhalation - Category 4 - Warning - (CLP : Acute Tox. 4) - H332
Germ cell mutagenicity - Category 2 - Warning - (CLP : Muta. 2) - H341

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

- Hazard pictograms



- Hazard pictograms : GHS08 - GHS07
- Signal words : Warning
- Hazard statements : H341 - Suspected of causing genetic defects.
H302 - Harmful if swallowed
H332 - Harmful if inhaled.

- Precautionary statements

- Prevention : P281 - Use personal protective equipment as required
P202 - Do not handle until all safety precautions have been read and understood
- Response : P309+311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician

2.3. Other hazards

Other hazards : None under normal conditions.



SAFETY DATA SHEET

Page : 2 / 8

Revision nr : 8

Date : 25 / 4 / 2016

Supersedes : 17 / 6 / 2015

Mayer haemalum**320550**

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)
Methanol	: ca 10 %	67-56-1	200-659-6	603-001-00-X	01-2119433307-44-XXXX	Flam. Liq. 2;H225 Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 STOT SE 1;H370

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** : Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision. Harmful if inhaled.
- **Skin contact** : Repeated exposure to this material can result in absorption through skin causing significant health 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.



SAFETY DATA SHEET

Page : 3 / 8

Revision nr : 8

Date : 25 / 4 / 2016

Supersedes : 17 / 6 / 2015

Mayer haemalum

320550

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.

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

Occupational Exposure Limits

On ingredients : Methanol : VLE - France [ppm] : indicative 250
Methanol : VLE - France [ppm] : indicative 328
Methanol : VME - France [ppm] : 200
Methanol : VME - France [mg/m³] : 260
Methanol : VME - CEE [ppm] : 200
Methanol : VME - CEE [mg/m³] : 260
Methanol : VLE - Unated States [ppm] : 250
Methanol : VME - Unated States [ppm] : 200
Methanol : VME - Germany [ppm] : 200
Methanol : VME - Germany [mg/m³] : 270

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).

• **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).

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	SAFETY DATA SHEET	Page : 4 / 8
		Revision nr : 8
		Date : 25 / 4 / 2016
		Supersedes : 17 / 6 / 2015
Mayer haemalum		320550

SECTION 8. Exposure controls/personal protection (continued)

- 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.

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

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

Flash point [°C] : 57.4

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

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	SAFETY DATA SHEET	Page : 5 / 8
		Revision nr : 8
		Date : 25 / 4 / 2016
		Supersedes : 17 / 6 / 2015
Mayer haemalum		320550

SECTION 9. Physical and chemical properties (continued)

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 : No data available.

10.4. Conditions to avoid


Conditions to avoid : No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No data available.

	SAFETY DATA SHEET	Page : 6 / 8
		Revision nr : 8
		Date : 25 / 4 / 2016
		Supersedes : 17 / 6 / 2015
Mayer haemalum		320550

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• **Acute toxicity**

On ingredients

Haematoxylin pure

: Rat oral LD50 [mg/kg] : 400

Methanol

: Mouse dermal LD50 [mg/kg] : > 45000

: Rabbit dermal LD50 [mg/kg] : 15800

: Rat oral LD50 [mg/kg] : 5628

: Mouse oral LD50 [mg/kg] : 7300

: Rat inhalation LC50 [ppm/4h] : 64000

: Rat inhalation LC50 [mg/l/4h] : 85

Sources of key data used

: INRS and ESIS

• **Skin corrosion/irritation**

: No data available.

• **Serious eye damage/irritation**

: No data available.

• **Respiratory or skin sensitisation**

: No data available.

• **Germ cell mutagenicity**

: Suspected of causing genetic defects.

• **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 by inhalation and if swallowed.

• **Signs and symptoms of exposure**

: No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Methanol

: LC50-96 Hour - fish [mg/l] : 15400

: 24 H-LC50 - Daphnia magna [mg/l] : > 10000

: 24 Hour-LC50 - Plankton [mg/l] : 12000

12.2. Persistence - degradability

On ingredients

Methanol

: Biodegradation [%] : > 90 (24h)

12.3. Bioaccumulative potential

On ingredients

Methanol

: Bioaccumulative potential : 10 (Leuciscus idus)

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.



SAFETY DATA SHEET

Page : 7 / 8

Revision nr : 8

Date : 25 / 4 / 2016

Supersedes : 17 / 6 / 2015

Mayer haemalum**320550**

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.

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.
H331 - Toxic if inhaled.
H370 - Causes damage to organs.

Revision : 8

Print date : 25 / 4 / 2016

Further information : Product intended for professional use only.

	SAFETY DATA SHEET	Page : 8 / 8
		Revision nr : 8
		Date : 25 / 4 / 2016
		Supersedes : 17 / 6 / 2015
Mayer haemalum		320550

SECTION 16. Other information (continued)

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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End of document



SAFETY DATA SHEET

Page : 1 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

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

1.1. Product identifier

Trade name : Phosphomolybdic acid

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)

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
Phosphomolybdic acid	: < 1 %	51429-74-4	234-713-5	-----	----	Ox. Sol. 2;H272 Skin Corr. 1B;H314



SAFETY DATA SHEET

Page : 2 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

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.



SAFETY DATA SHEET

Page : 3 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

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.



SAFETY DATA SHEET

Page : 4 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.
Colour : Pale yellow.

9.1.b. Odour

Odourless.

9.1.c. Odour threshold

No data available.

9.1.d. pH

pH value : < 2.5

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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SAFETY DATA SHEET

Page : 5 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

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.



SAFETY DATA SHEET

Page : 6 / 7

Revision nr : 7

Date : 25 / 4 / 2016

Supersedes : 9 / 5 / 2014

Phosphomolybdic acid

361760

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.

	SAFETY DATA SHEET	Page : 7 / 7
		Revision nr : 7
		Date : 25 / 4 / 2016
		Supersedes : 9 / 5 / 2014
Phosphomolybdic acid		361760

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 : H272 - May intensify fire; oxidizer
H314 - Causes severe skin burns and eye damage.

Revision : 7

Print date : 25 / 4 / 2016

Further information : Product intended for professional use only.

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SAFETY DATA SHEET

Page : 1 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin**361770**

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

1.1. Product identifier

Trade name : Ponceau fuchsin

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
Eye irritation - Category 2A - Warning - (CLP : Eye Irrit. 2) - H319

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms

• Hazard pictograms : GHS07
• Signal words : Warning
• Hazard statements : H319 - Causes serious eye irritation.
H315 - Causes skin irritation.

• Precautionary statements

• Prevention : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards : None under normal conditions.



SAFETY DATA SHEET

Page : 2 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin**361770**

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
Acide acétique 90%	: ca 1 %	64-19-7	200-580-7	607-002-00-6	01-2119475328-30	Not CLP Eye Dam. 1:H318 Flam. Liq. 3:H226
Acid fuchsin S	: ca 0.5 %	3244-88-0	221-816-5	-----	----	Not classified. (GHS)
Xylidine ponceau 2R	: ca 1 %	3761-53-3	223-178-3	-----	----	Carc. 2:H351

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** : Wash skin thoroughly with mild soap and 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** : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **Skin contact** : Irritating to skin. Redness, pain.
- **Eye contact** : Eye irritant upon direct contact. 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.



SAFETY DATA SHEET

Page : 3 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin

361770

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.

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

Occupational Exposure Limits

On ingredients

Acide acétique 90% : VLE - France [ppm] : indicative 10
: VLE - France [mg/m³] : indicative 25
: VLE - Unated States [ppm] : indicative 15
: VLE - Unated States [mg/m³] : indicative 37
: VME - Unated States [ppm] : indicative 10
: VME - Unated States [mg/m³] : indicative 25
: VME - Germany [ppm] : indicative 10
: VME - Germany [mg/m³] : indicative 25

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.



SAFETY DATA SHEET

Page : 4 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin**361770**

SECTION 8. Exposure controls/personal protection (continued)

- Skin protection
- Eye protection
- Ingestion
- Industrial hygiene

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.

- : 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.
- : Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- : When using, do not eat, drink or smoke.
- : 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 : 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

No data available.

9.1.n. Solubility

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SAFETY DATA SHEET

Page : 5 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin**361770**

SECTION 9. Physical and chemical properties (continued)

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**

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****Acide acétique 90%** : Rat oral LD50 [mg/kg] : 3310 - 3530
: Mouse oral LD50 [mg/kg] : 4960
: Rabbit oral LD50 [mg/kg] : 1200
: Rat inhalation LC50 [ppm/4h] : 4400
: Rat inhalation LC50 [mg/l/4h] : 11.4



SAFETY DATA SHEET

Page : 6 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin**361770**

SECTION 11. Toxicological information (continued)

Xylidine ponceau 2R	: Rat oral LD50 [mg/kg] : 23160
• Skin corrosion/irritation	: Causes skin irritation.
• 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	: No data available.
• Signs and symptoms of exposure	: To our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Acide acétique 90% : LC50-96 Hour - fish [mg/l] : (Pimephales promelas) 79
: 24 H-LC50 - Daphnia magna [mg/l] : 95

12.2. Persistence - degradability

On ingredients

Acide acétique 90% : Biodegradation [%] : 95 (120h)

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.

	SAFETY DATA SHEET	Page : 7 / 8
		Revision nr : 4
		Date : 26 / 4 / 2016
		Supersedes : 26 / 5 / 2014
Ponceau fuchsin		361770

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.

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 : H226 - Flammable liquid and vapour
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H351 - Suspected of causing cancer.

Revision : 4
Print date : 26 / 4 / 2016
Further information : Product intended for professional use only.

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SAFETY DATA SHEET

Page : 8 / 8

Revision nr : 4

Date : 26 / 4 / 2016

Supersedes : 26 / 5 / 2014

Ponceau fuchsin

361770

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	SAFETY DATA SHEET	Page : 1 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 14 / 5 / 2014
1% acetic water		361810

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

1.1. Product identifier

Trade name : 1% acetic water

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
Eye irritation - Category 2A - Warning - (CLP : Eye Irrit. 2) - H319

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms : GHS07
• Signal words : Warning
• Hazard statements : H319 - Causes serious eye irritation.
H315 - Causes skin irritation.

• Precautionary statements

• Prevention : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards : None under normal conditions.



SAFETY DATA SHEET

Page : 2 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361810**

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
Acide acétique 90%	1 %	64-19-7	200-580-7	607-002-00-6	01-2119475328-30	Not CLP Eye Dam. 1:H318 Flam. Liq. 3:H226

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** : Irritating to skin. Redness, pain.
- **Eye contact** : Eye irritant upon direct contact. 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.

6.4. Reference to other sections

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SAFETY DATA SHEET

Page : 3 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361810**

SECTION 6. Accidental release measures (continued)

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

Occupational Exposure Limits**On ingredients****Acide acétique 90%**

: VLE - France [ppm] : indicative 10
: VLE - France [mg/m³] : indicative 25
: VLE - Unated States [ppm] : indicative 15
: VLE - Unated States [mg/m³] : indicative 37
: VME - Unated States [ppm] : indicative 10
: VME - Unated States [mg/m³] : indicative 25
: VME - Germany [ppm] : indicative 10
: VME - Germany [mg/m³] : indicative 25

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.

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SAFETY DATA SHEET

Page : 4 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361810**

SECTION 8. Exposure controls/personal protection (continued)

- **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.

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

- pH value** : < 3

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

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SAFETY DATA SHEET

Page : 5 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361810**

SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.g. 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

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

Acide acétique 90% : Rat oral LD50 [mg/kg] : 3310 - 3530

: Mouse oral LD50 [mg/kg] : 4960

: Rabbit oral LD50 [mg/kg] : 1200

: Rat inhalation LC50 [ppm/4h] : 4400

: Rat inhalation LC50 [mg/l/4h] : 11.4

• Skin corrosion/irritation

: Causes skin irritation.

• 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.



SAFETY DATA SHEET

Page : 6 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361810**

SECTION 11. Toxicological information (continued)

- 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.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

- Acide acétique 90% : LC50-96 Hour - fish [mg/l] : (Pimephales promelas) 79
: 24 H-LC50 - Daphnia magna [mg/l] : 95

12.2. Persistence - degradability

On ingredients

- Acide acétique 90% : Biodegradation [%] : 95 (120h)

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

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	<h1>SAFETY DATA SHEET</h1>	Page : 7 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 14 / 5 / 2014
<h2>1% acetic water</h2>		<h3>361810</h3>

SECTION 14. Transport information (continued)

- 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.

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** : H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
- Revision** : 6
- Print date** : 26 / 4 / 2016
- 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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End of document

	SAFETY DATA SHEET	Page : 1 / 7
		Revision nr : 5
		Date : 26 / 4 / 2016
		Supersedes : 14 / 5 / 2014
1% acetic water		361840

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

1.1. Product identifier

Trade name : 1% acetic water

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
Eye irritation - Category 2A - Warning - (CLP : Eye Irrit. 2) - H319

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms : GHS07
• Signal words : Warning
• Hazard statements : H319 - Causes serious eye irritation.
H315 - Causes skin irritation.

• Precautionary statements

• Prevention : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response : P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

Other hazards : None under normal conditions.



SAFETY DATA SHEET

Page : 2 / 7

Revision nr : 5

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361840**

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
Acide acétique 90%	1 %	64-19-7	200-580-7	607-002-00-6	01-2119475328-30	Not CLP Eye Dam. 1:H318 Flam. Liq. 3:H226

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** : Irritating to skin. Redness, pain.
- **Eye contact** : Eye irritant upon direct contact. 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.

6.4. Reference to other sections

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SAFETY DATA SHEET

Page : 3 / 7

Revision nr : 5

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361840**

SECTION 6. Accidental release measures (continued)

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

Occupational Exposure Limits

On ingredients

Acide acétique 90% : VLE - France [ppm] : indicative 10
: VLE - France [mg/m³] : indicative 25
: VLE - Unated States [ppm] : indicative 15
: VLE - Unated States [mg/m³] : indicative 37
: VME - Unated States [ppm] : indicative 10
: VME - Unated States [mg/m³] : indicative 25
: VME - Germany [ppm] : indicative 10
: VME - Germany [mg/m³] : indicative 25

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.

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	SAFETY DATA SHEET	Page : 4 / 7
		Revision nr : 5
		Date : 26 / 4 / 2016
		Supersedes : 14 / 5 / 2014
1% acetic water		361840

SECTION 8. Exposure controls/personal protection (continued)

- **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.

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

- pH value** : < 3

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

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SAFETY DATA SHEET

Page : 5 / 7

Revision nr : 5

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361840**

SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.g. 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

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

Acide acétique 90% : Rat oral LD50 [mg/kg] : 3310 - 3530
: Mouse oral LD50 [mg/kg] : 4960
: Rabbit oral LD50 [mg/kg] : 1200
: Rat inhalation LC50 [ppm/4h] : 4400
: Rat inhalation LC50 [mg/l/4h] : 11.4

• Skin corrosion/irritation

: Causes skin irritation.

• 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.



SAFETY DATA SHEET

Page : 6 / 7

Revision nr : 5

Date : 26 / 4 / 2016

Supersedes : 14 / 5 / 2014

1% acetic water**361840**

SECTION 11. Toxicological information (continued)

- 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.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

- Acide acétique 90% : LC50-96 Hour - fish [mg/l] : (Pimephales promelas) 79
: 24 H-LC50 - Daphnia magna [mg/l] : 95

12.2. Persistence - degradability

On ingredients

- Acide acétique 90% : Biodegradation [%] : 95 (120h)

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

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	<h1>SAFETY DATA SHEET</h1>	Page : 7 / 7
		Revision nr : 5
		Date : 26 / 4 / 2016
		Supersedes : 14 / 5 / 2014
<h2>1% acetic water</h2>		<h3>361840</h3>

SECTION 14. Transport information (continued)

- 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.

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** : H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
- Revision** : 5
- Print date** : 26 / 4 / 2016
- Further information** : Product intended for professional use only.

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DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

End of document



SAFETY DATA SHEET

Page : 1 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 9 / 5 / 2014

Aniline blue

361880

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

1.1. Product identifier

Trade name : Aniline blue

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)

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
Acide acétique 90%	: ca 0.5 %	64-19-7	200-580-7	607-002-00-6	01-2119475328-30	Not CLP Eye Dam. 1;H318 Flam. Liq. 3;H226
Aniline blue WS (méthyl blue)	: ca 3 %	28983-56-4	249-352-9	-----	----	Not classified. (GHS)

	SAFETY DATA SHEET	Page : 2 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 9 / 5 / 2014
Aniline blue		361880

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.

	<h1>SAFETY DATA SHEET</h1>	Page : 3 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 9 / 5 / 2014
<h2>Aniline blue</h2>		<h3>361880</h3>

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

Occupational Exposure Limits

On ingredients

Acide acétique 90%


- : VLE - France [ppm] : indicative 10
- : VLE - France [mg/m³] : indicative 25
- : VLE - Unated States [ppm] : indicative 15
- : VLE - Unated States [mg/m³] : indicative 37
- : VME - Unated States [ppm] : indicative 10
- : VME - Unated States [mg/m³] : indicative 25
- : VME - Germany [ppm] : indicative 10
- : VME - Germany [mg/m³] : indicative 25

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.

	SAFETY DATA SHEET	Page : 4 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 9 / 5 / 2014
Aniline blue		361880

SECTION 8. Exposure controls/personal protection (continued)

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid.
Colour : Blue.

9.1.b. Odour

Odour : Faint characteristic.

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.



SAFETY DATA SHEET

Page : 5 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 9 / 5 / 2014

Aniline blue

361880

SECTION 9. Physical and chemical properties (continued)

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**

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****Acide acétique 90%** : Rat oral LD50 [mg/kg] : 3310 - 3530

: Mouse oral LD50 [mg/kg] : 4960

: Rabbit oral LD50 [mg/kg] : 1200

: Rat inhalation LC50 [ppm/4h] : 4400

: Rat inhalation LC50 [mg/l/4h] : 11.4

Aniline blue WS (méthyl blue) : Rat oral LD50 [mg/kg] : > 5000**• 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.



SAFETY DATA SHEET

Page : 6 / 7

Revision nr : 6

Date : 26 / 4 / 2016

Supersedes : 9 / 5 / 2014

Aniline blue

361880

SECTION 11. Toxicological information (continued)

- 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.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

- Acide acétique 90% : LC50-96 Hour - fish [mg/l] : (Pimephales promelas) 79
- : 24 H-LC50 - Daphnia magna [mg/l] : 95

12.2. Persistence - degradability

On ingredients

- Acide acétique 90% : Biodegradation [%] : 95 (120h)

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.

	<h1>SAFETY DATA SHEET</h1>	Page : 7 / 7
		Revision nr : 6
		Date : 26 / 4 / 2016
		Supersedes : 9 / 5 / 2014
<h2>Aniline blue</h2>		<h3>361880</h3>

SECTION 14. Transport information (continued)

- 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.

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** : H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
- Revision** : 6
- Print date** : 26 / 4 / 2016
- 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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