



SAFETY DATA SHEET

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Revision nr : 6

Date : 25 / 4 / 2016

Supersedes : 23 / 5 / 2014

Fixative Fluo-RAL

362115

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

1.1. Product identifier

Trade name : Fixative Fluo-RAL

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)

• Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 - (CLP : Aquatic Chronic 3) - H412

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Signal words : None.
• Hazard statements : H412 - Harmful to aquatic life with long lasting effects.

• Precautionary statements

- Disposal considerations : P501 - Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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
Trichloroacetic acid	< 1 %	76-03-9	200-927-2	607-004-00-7	----	Not CLP Eye Dam. 1:H318 Aquatic Acute 1:H400 Aquatic Chronic 1:H410

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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : If you feel unwell, seek medical advice.
- **Skin contact** : Seek medical attention if ill effect develops.
- **Eye contact** : Rinse with water. Seek medical attention if ill effect 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 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Notify authorities if product enters sewers or 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 proper protective equipment. 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

No data available.

9.1.c. Odour threshold

No data available.

9.1.d. pH

pH value : <2

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] : >100

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 : 1.000 - 1.005

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****Trichloroacetic acid** : Rat oral LD50 [mg/kg] : 3320**Sources of key data used : ESIS**

- 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** : No data available.
- Signs and symptoms of exposure** : No data available.



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SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Trichloroacetic acid : LC50-96 Hour - fish [mg/l] : Primephales promelas : 2000
: 48 H-LC50 - Daphnia magna [mg/l] : 1460 - 2000
: 24 H-LC50 - Daphnia magna [mg/l] : 110
: 72 H-CE50 - Algae [mg/l] : 3250

12.2. Persistence - degradability

On ingredients

Trichloroacetic acid : Biodegradation [%] : 5

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic 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

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SECTION 14. Transport information (continued)

• 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

A chemical safety assessment has not been performed.

SECTION 16. Other information

H Substances ' sentences' text : H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.

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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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Degommier Discolouring Solution Fluo-RAL / Discolouring Solution Fluo-RAL

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

1.1. Product identifier

Trade name : Degommier Discolouring Solution Fluo-RAL / Discolouring Solution Fluo-RAL

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)

• 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

• Signal words

: Danger

• Hazard statements

: H225 - Highly flammable liquid and vapour

• Precautionary statements

• Prevention

: P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233 - 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
Hydrochloric acid, 37%	< 1 %	7647-01-0	231-595-7	017-002-01-X	---	Skin Corr. 1B;H314 STOT SE3; H335
Ethanol	ca 90 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225

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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** : Rinse immediately 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 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 : Headache.
- **Skin contact** : Repeated or prolonged skin contact may cause irritation.
- **Eye contact** : Redness, pain. Blurred vision. Burning sensation.
- **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.

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.



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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

- Hydrochloric acid, 37%** : VLE - France [ppm] : 5
: VLE - France [mg/m³] : 7.6
: VLE - CEE [ppm] : 10
: VLE - CEE [mg/m³] : 15
: VME - CEE [ppm] : 5
: VME - CEE [mg/m³] : 8
: VLE - Unated States [ppm] : 2
: VME - Germany [ppm] : 2
: VME - Germany [mg/m³] : 3
- Ethanol** : VLE - France [ppm] : indicative 5000
: VLE - France [mg/m³] : indicative 9500
: VME - France [ppm] : indicative 1000
: VME - France [mg/m³] : indicative 1950
: VME - Unated States [ppm] : indicative 1000
: VME - Unated States [mg/m³] : indicative 1880
: VME - Germany [ppm] : indicative 500
: VME - Germany [mg/m³] : indicative 960

8.2. Exposure controls

Personal protection



- **Respiratory protection** : When risk assessment shows air-purifying respirators are appropriate, Use a full-face cartridge combination (U.S.) or type ABEK (EN 14387). If the respirator is the sole means of protection, use a respirator with full-face. 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: 0.56 mm.
Break through time: 315 min.

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SECTION 8. Exposure controls/personal protection (continued)

- Skin protection
- Eye protection
- Ingestion
- Industrial hygiene

Proposed equipment : SOL-VEX® (Ansell 37-185).

In the event of splashes:

Material: nitrile rubber.

Minimum thickness: 0.10 mm.

Break through time: 16 min.

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 proper protective equipment. 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.
- : 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.

9.1.b. Odour

Odour : Alcohol.

9.1.c. Odour threshold

No data available.

9.1.d. pH

pH value : < 2

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] : 17.5

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.



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SECTION 9. Physical and chemical properties (continued)

9.1.m. Relative density

Density : 0.825-0.835

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.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

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

No data available.



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SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

Hydrochloric acid, 37% : Rabbit dermal LD50 [mg/kg] : > 5010
: Rat oral LD50 [mg/kg] : 700
: Rabbit oral LD50 [mg/kg] : 900

Ethanol : Rat oral LD50 [mg/kg] : 5000 - 20000
: Rat inhalation LC50 [ppm/4h] : 20000 - 30000
: Mouse oral LD50 [mg/l/4h] : 20

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 : 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

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. : 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.

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

A chemical safety assessment has not been performed.



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SECTION 16. Other information

H Substances ' sentences' text : H225 - Highly flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Revision : 7

Print date : 21 / 4 / 2016

Further information : Product intended for professional use only.

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Auramine Fluo-RAL

362325

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

1.1. Product identifier

Trade name : Auramine Fluo-RAL

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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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
Germ cell mutagenicity - Category 2 - Warning - (CLP : Muta. 2) - H341
- Physical hazards : Flammable liquids - Category 3 - Warning - (CLP : Flam. Liq. 3) - H226

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



- Hazard pictograms : GHS08 - GHS02 - GHS07
- Signal words : Warning
- Hazard statements : H226 - Flammable liquid and vapour
H341 - Suspected of causing genetic defects.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.

• Precautionary statements

- Prevention : P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
- Response : P308+313 - IF exposed or concerned: Get medical advice/attention
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice / attention.

2.3. Other hazards

Other hazards : None under normal conditions.

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Auramine Fluo-RAL

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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
Ethanol	: ca 8 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225
Auramine O	: < 1 %	2465-27-2	219-567-2	612-097-00-2	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 4 (Oral);H302 Carc. 2;H351
Phenol	: ca 2 %	108-95-2	203-632-7	604-001-00-2	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 Skin Corr. 1B;H314 Eye Dam. 1;H318 Muta. 2;H341 STOT RE 2;H373

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** : 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** : Danger of serious damage to health by prolonged exposure through inhalation.
- **Skin contact** : Irritating to skin. Exposure to this material can result in absorption through skin causing significant health hazard.
- **Eye contact** : Eye irritant upon direct contact. 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** : 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.



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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 : 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 potential fire 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
- Phenol : TLV-TWA [mg/m³] : 8
- Phenol : TLV-TWA [ppm] : 2
- Phenol : TLV-STEL [mg/m³] : 16
- Phenol : TLV-STEL [ppm] : 4
- Phenol : VLE - France [ppm] : 4
- Phenol : VLE - France [mg/m³] : 15.6
- Phenol : VME - France [ppm] : 2
- Phenol : VME - France [mg/m³] : 7.8
- Phenol : VME - CEE [ppm] : 2
- Phenol : VME - CEE [mg/m³] : 7.8
- Phenol : VME - Unated States [ppm] : 5

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SECTION 8. Exposure controls/personal protection (continued)

8.2. Exposure controls

Personal protection



• **Respiratory protection**

: When risk assessment shows air-purifying respirators are appropriate, Use a full-face cartridge combination (U.S.) or type ABEK (EN 14387). If the respirator is the sole means of protection, use a respirator with full-face. 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: 0.56 mm. Break through time: Not tested.

Proposed equipment : 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 proper protective equipment. 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 : Yellow.

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] : 53.1

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 : 0.980 - 0990

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

Open flame. Overheating. Sparks.

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SECTION 10. Stability and reactivity (continued)

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

Phenol	: Mouse dermal LD50 [mg/kg] : 660 - 707
	: Rabbit dermal LD50 [mg/kg] : 850
	: Rat oral LD50 [mg/kg] : 340
	: Mouse oral LD50 [mg/kg] : 300
	: Rabbit oral LD50 [mg/kg] : 420
	: Rat inhalation LC50 [ppm/8h] : > 236
Auramine O	: Mouse dermal LD50 [mg/kg] : 300
	: Mouse oral LD50 [mg/kg] : 480
Ethanol	: Rat oral LD50 [mg/kg] : 5000 - 20000
	: Rat inhalation LC50 [ppm/4h] : 20000 - 30000
	: Mouse oral LD50 [mg/l/4h] : 20

Sources of key data used

	: INRS and ESIS
• Skin corrosion/irritation	: Causes skin irritation.
• Serious eye damage/irritation	: Causes serious eye irritation.
• 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	: Swallowing a small quantity of this material presents some health hazard.
• Signs and symptoms of exposure	: No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Phenol	: LC50-96 Hour - fish [mg/l] : 8.9
	: 48 H-LC50 - Daphnia magna [mg/l] : 10.2 - 15.5
	: 96 H-CE50 - Algae [mg/l] : 370
Auramine O	: LC50-48 Hour - fish [mg/l] : 3.2 (Oryzias latipes)
Ethanol	: LC50-96 Hour - fish [mg/l] : 11000
	: 48 H-LC50 - Daphnia magna [mg/l] : 9268 - 14221
	: 48 H-CE50 - Algae [mg/l] : 5000



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SECTION 12. Ecological information (continued)

12.2. Persistence - degradability

On ingredients

Phenol : Biodegradation [%] : 100 (20h)

12.3. Bioaccumulative potential

On ingredients

Phenol : Bioaccumulative potential : 2 (Carassius auratus)

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

General information : Not regulated by special provision 144 of ADR, A58 IATA and 144 IMDG.

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 14. Transport information (continued)

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

A chemical safety assessment has not been performed.

SECTION 16. Other information

H Substances ' sentences' text : H225 - Highly flammable liquid and vapour
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H341 - Suspected of causing genetic defects.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.

Revision : 9
Print date : 25 / 4 / 2016
Further information : Product intended for professional use only.

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Carbolic Solution for Auramine Fluo-RAL / Solution for Auramine

362530

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

1.1. Product identifier

Trade name : Carbolic Solution for Auramine Fluo-RAL / Solution for Auramine

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)

- Health hazards : Acute toxicity, Oral - Category 4 - Warning - (CLP : Acute Tox. 4) - H302
Acute toxicity, dermal - Category 4 - Warning - (CLP : Acute Tox. 4) - H312
Acute toxicity, Inhalation - Category 4 - Warning - (CLP : Acute Tox. 4) - H332
Skin corrosion - Category 1B - Danger - (CLP : Skin Corr. 1B) - H314
Germ cell mutagenicity - Category 2 - Warning - (CLP : Muta. 2) - H341

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms

: GHS05 - GHS08 - GHS07

• Signal words

: Danger

• Hazard statements

: H314 - Causes severe skin burns and eye damage.
H341 - Suspected of causing genetic defects.
H302 - Harmful if swallowed
H312 - Harmful in contact with skin.
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

: P308+313 - IF exposed or concerned: Get medical advice/attention
P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice / attention.

2.3. Other hazards

Other hazards : None under normal conditions.

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SECTION 2 Hazards identification (continued)

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
Phenol	ca 6 %	108-95-2	203-632-7	604-001-00-2	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 Skin Corr. 1B;H314 Eye Dam. 1;H318 Muta. 2;H341 STOT RE 2;H373

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 immediately.
- **Eye contact** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Ingestion** : Rinse mouth. Call a physician immediately.

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** : Redness, pain. Causes burns. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
- **Eye contact** : Blurred vision. Redness, pain. Burning sensation.
- **Ingestion** : Harmful if swallowed. Abdominal pain, nausea. Burning sensation. 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 data available.

5.3. Advice for fire-fighters

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



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Carbolic Solution for Auramine Fluo-RAL / Solution for Auramine

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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

General : Avoid all unnecessary exposure. Store and handle as though always a serious health hazard exists.

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 container closed when not in use. Store in dry, cool, well-ventilated area. Do not store in corrodable metal.

7.3. Specific end use(s)

Not applicable.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

On ingredients : Phenol : TLV-TWA [mg/m³] : 8
Phenol : TLV-TWA [ppm] : 2
Phenol : TLV-STEL [mg/m³] : 16
Phenol : TLV-STEL [ppm] : 4
Phenol : VLE - France [ppm] : 4
Phenol : VLE - France [mg/m³] : 15.6
Phenol : VME - France [ppm] : 2
Phenol : VME - France [mg/m³] : 7.8
Phenol : VME - CEE [ppm] : 2
Phenol : VME - CEE [mg/m³] : 7.8
Phenol : VME - Unated States [ppm] : 5

8.2. Exposure controls

Personal protection



• Respiratory protection

: When risk assessment shows air-purifying respirators are appropriate, Use a full-face cartridge combination (U.S.) or type ABEK (EN 14387). If the respirator is the sole means of protection, use a respirator with full-face. 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: 0.56 mm. Break through time: Not tested.
Proposed equipment : 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 proper protective equipment. 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 local exhaust or general room ventilation to minimize dust and/or vapour concentrations. 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

- Flash point [°C] : >100

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

RAL DIAGNOSTICS

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

Density : 1.000 - 1.010

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

Materials to avoid : Metals.

10.6. Hazardous decomposition products

No data available.



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SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

Phenol : Mouse dermal LD50 [mg/kg] : 660 - 707
: Rabbit dermal LD50 [mg/kg] : 850
: Rat oral LD50 [mg/kg] : 340
: Mouse oral LD50 [mg/kg] : 300
: Rabbit oral LD50 [mg/kg] : 420
: Rat inhalation LC50 [ppm/8h] : > 236

Sources of key data used : INRS et ESIS

- Skin corrosion/irritation : Causes burns.
- Serious eye damage/irritation : Causes serious eye damage.
- 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, in contact with skin and if swallowed.
- Signs and symptoms of exposure : No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Phenol : LC50-96 Hour - fish [mg/l] : 8.9
: 48 H-LC50 - Daphnia magna [mg/l] : 10.2 - 15.5
: 96 H-CE50 - Algae [mg/l] : 370

12.2. Persistence - degradability

On ingredients

Phenol : Biodegradation [%] : 100 (20h)

12.3. Bioaccumulative potential

On ingredients

Phenol : Bioaccumulative potential : 2 (Carassius auratus)

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. : 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

A chemical safety assessment has not been performed.

SECTION 16. Other information


H Substances ' sentences' text : H301 - Toxic if swallowed
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H341 - Suspected of causing genetic defects.
H373 - May cause damage to organs through prolonged or repeated exposure.

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RAL DIAGNOSTICS

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SECTION 16. Other information (continued)

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

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

1.1. Product identifier

Trade name : Carbolic Solution for Thiazine red Fluo-RAL / Solution for Thiazine Red

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.

General : Handle in accordance with good industrial hygiene and safety procedures.

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
Phenol	< 1 %	108-95-2	203-632-7	604-001-00-2	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 Skin Corr. 1B;H314 Eye Dam. 1;H318 Muta. 2;H341 STOT RE 2;H373

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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : If you feel unwell, seek medical advice.
- **Skin contact** : Seek medical attention if ill effect develops.
- **Eye contact** : Rinse with water. Seek medical attention if ill effect 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

Occupational Exposure Limits

On ingredients

Phenol : TLV-TWA [mg/m³] : 8
: TLV-TWA [ppm] : 2
: TLV-STEL [mg/m³] : 16
: TLV-STEL [ppm] : 4
: VLE - France [ppm] : 4
: VLE - France [mg/m³] : 15.6
: VME - France [ppm] : 2
: VME - France [mg/m³] : 7.8
: VME - CEE [ppm] : 2
: VME - CEE [mg/m³] : 7.8
: VME - Unated States [ppm] : 5

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).



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SECTION 8. Exposure controls/personal protection (continued)

- **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

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]** : >100

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** : 1.000 - 1.010

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.



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SECTION 9. Physical and chemical properties (continued)

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

Phenol

: Mouse dermal LD50 [mg/kg] : 660 - 707

: Rabbit dermal LD50 [mg/kg] : 850

: Rat oral LD50 [mg/kg] : 340

: Mouse oral LD50 [mg/kg] : 300

: Rabbit oral LD50 [mg/kg] : 420

: Rat inhalation LC50 [ppm/8h] : > 236

Sources of key data used : INRS

• 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.



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SECTION 11. Toxicological information (continued)

- 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 : No data available.

SECTION 12. Ecological information

12.1. Toxicity

On ingredients

- Phenol : LC50-96 Hour - fish [mg/l] : 8.9
: 48 H-LC50 - Daphnia magna [mg/l] : 10.2 - 15.5
: 96 H-CE50 - Algae [mg/l] : 370

12.2. Persistence - degradability

On ingredients

- Phenol : Biodegradation [%] : 100 (20h)

12.3. Bioaccumulative potential

On ingredients

- Phenol : Bioaccumulative potential : 2 (Carassius auratus)

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.

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SECTION 14. Transport information (continued)

• 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 : H301 - Toxic if swallowed
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H341 - Suspected of causing genetic defects.
H373 - May cause damage to organs through prolonged or repeated exposure.

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Further information : Product intended for professional use only.

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Thiazine Red Fluo-RAL

362780

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

1.1. Product identifier

Trade name : Thiazine Red Fluo-RAL

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.

General : Handle in accordance with good industrial hygiene and safety procedures.

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
Thiazine red	< 1 %	2150-33-6	218-422-0	-----	----	Eye Dam. 1;H318 Acute Tox. 4 (Oral);H302
Sodium carbonate	< 1	497-19-8	207-838-8	011-005-00-2	01-2119485498-19	Eye Irrit. 2;H319

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Thiazine Red Fluo-RAL

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SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : If you feel unwell, seek medical advice.
- **Skin contact** : Seek medical attention if ill effect develops.
- **Eye contact** : Rinse with water. Seek medical attention if ill effect 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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Thiazine Red Fluo-RAL**362780**

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

pH value : 11.0 - 11.5

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

Flash point [°C] : >100

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

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

RAL DIAGNOSTICS

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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

Sodium carbonate : Mouse dermal LD50 [mg/kg] : 2210
: Rat oral LD50 [mg/kg] : 4090
: Rat inhalation LC50 [mg/l/2h] : 2300

Sources of key data used : ESIS

- 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 : No data available.
- Signs and symptoms of exposure : No data available.



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SECTION 12. Ecological information

12.1. Toxicity

On ingredients

Sodium carbonate : LC50-96 Hour - fish [mg/l] : 740 (Gambusia affinis)
: LC50-96 Hour - fish [mg/l] : 300 (Lepomis macrochirus)
: 48 H-LC50 - Daphnia magna [mg/l] : 265
: 120 H-CE50 - Algae [mg/l] : 242

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

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Thiazine Red Fluo-RAL**362780****SECTION 14. Transport information (continued)**

• 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** : H302 - Harmful if swallowed
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.**Revision** : 5**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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