



SAFETY DATA SHEET

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Revision nr : 9

Date : 17 / 6 / 2015

Supersedes : 15 / 5 / 2014

Armand solution**360100**

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

1.1. Product identifier

Trade name : Armand solution

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

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

1.3. Details of the supplier of the safety data sheet

Company identification : RAL DIAGNOSTICS S.A.S.
Site Montesquieu
33651 MARTILLAC CEDEX France
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: fds@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 corrosion - Category 1B - Danger - (CLP : Skin Corr. 1B) - H314
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318
Skin sensitisation - Category 1 - Warning - (CLP : Skin Sens. 1) - H317
Germ cell mutagenicity - Category 2 - Warning - (CLP : Muta. 2) - H341
Carcinogenicity - Category 2 - Warning - (CLP : Carc. 2) - H351
Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger - (CLP : STOT RE 1) - H372
- 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

: GHS05 - GHS08 - GHS02 - GHS07

• Signal words

: Danger

• Hazard statements

: H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H351 - Suspected of causing cancer.
H341 - Suspected of causing genetic defects.
H317 - May cause an allergic skin reaction.
H372 - Causes damage to organs through prolonged or repeated exposure .

• Precautionary statements

• Prevention

: P281 - Use personal protective equipment as required
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
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.**RAL DIAGNOSTICS S.A.S.**Site Montesquieu 33651 MARTILLAC CEDEX France
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SECTION 2 Hazards identification (continued)

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
Methylene blue	< 2 %	61-73-4	200-515-2	-----	----	Acute Tox. 4 (Oral);H302
Aniline	< 2 %	62-53-3	200-539-3	612-008-00-7	----	Acute Tox. 3 (Dermal);H311 Acute Tox. 3 (Inhalation);H331 Acute Tox. 3 (Oral);H301 Eye Dam. 1;H318 STOT RE 1;H372 Carc. 2;H351 Muta. 2;H341 Skin Sens. 1;H317 Aquatic Acute 1;H400
Ethanol	ca 45 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225
Nitric acid	ca 20 %	7697-37-2	231-714-2	007-004-00-1	----	Ox. Liq. 1;H271 Not CLP Eye Dam. 1;H318

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 immediately.
- **Eye contact** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Ingestion** : Rinse mouth. Do not induce vomiting because of corrosive effects. Call a physician immediately.

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

- **Inhalation** : Sore throat. Corrosive to respiratory system.
- **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.



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

7.2. Conditions for safe storage, including any incompatibilities

Storage : Store in dry, cool, well-ventilated area. Keep container closed when not in use. Keep away from heat. Do not store in corrodable metal.

7.3. Specific end use(s)

Not applicable.



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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
Nitric acid : VLE - France [ppm] : indicative 1
Nitric acid : VLE - France [mg/m³] : indicative 2.6
Nitric acid : VLE - CEE [ppm] : 1
Nitric acid : VLE - CEE [mg/m³] : 2.6
Nitric acid : VLE - Unated States [ppm] : 4
Nitric acid : VLE - Unated States [mg/m³] : 10
Nitric acid : VME - Unated States [ppm] : 2
Nitric acid : VME - Unated States [mg/m³] : 5.2
Aniline : VME - France [ppm] : indicative 2
Aniline : VME - France [mg/m³] : indicative 10
Aniline : VME - Unated States [ppm] : 2
Aniline : VME - Unated States [mg/m³] : 7.6
Aniline : VLE - Germany [ppm] : 4
Aniline : VLE - Germany [mg/m³] : 15.4
Aniline : VME - Germany [ppm] : 2
Aniline : VME - Germany [mg/m³] : 7.7

8.2. Exposure controls

Personal protection



• Respiratory protection

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

• Hand protection

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

In full:

Material: nitrile rubber.

Minimum thickness: 0.56 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.



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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 : Dark blue.

9.1.b. Odour

Odour : 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

Flash point [°C] : 28.03

9.1.h. Evaporation rate

No data available.

9.1.i. Flammability

No data available.

9.1.j. Explosion limits (lower - upper)

No data available.

9.1.k. Vapour pressure

No data available.

9.1.l. Vapour density

No data available.

9.1.m. Relative density

No data available.

9.1.n. Solubility

No data available.

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

No data available.

9.1.p. Auto-ignition temperature

No data available.

9.1.q. Thermal decomposition

No data available.

9.1.r. Viscosity

No data available.

9.1.s. Explosive Properties

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SECTION 9. Physical and chemical properties (continued)

No data available.

9.1.t. Oxidising properties

No data available.

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Materials to avoid : Metals.

10.6. Hazardous decomposition products

No data available.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

• Acute toxicity

On ingredients

- | | |
|--|--|
| Aniline | : Rabbit dermal LD50 [mg/kg] : 1540 |
| | : Rat oral LD50 [mg/kg] : 572 |
| | : Rat inhalation LC50 [mg/l/4h] : 1.9 - 3.3 |
| Ethanol | : Rat oral LD50 [mg/kg] : 5000 - 20000 |
| | : Rat inhalation LC50 [ppm/4h] : 20000 - 30000 |
| | : Mouse oral LD50 [mg/l/4h] : 20 |
| Nitric acid | : Rat oral LD50 : mg/L 0.8 |
| Sources of key data used | : INRS and ESIS |
| • Skin corrosion/irritation | : Causes burns. |
| • Serious eye damage/irritation | : Causes serious eye damage. |
| • Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| • Germ cell mutagenicity | : Suspected of causing genetic defects. |
| • Carcinogenicity | : Suspected of causing cancer. |
| • Reproductive toxicity | : No data available. |
| • STOT-single exposure | : No data available. |
| • STOT-repeated exposure | : Causes damage to organs. |
| • Aspiration hazard | : No data available. |

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SECTION 11. Toxicological information (continued)

- Potential effects on health : No data available.
- 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
- Nitric acid : LC50-96 Hour - fish [mg/l] : 72

12.2. Persistence - degradability

On ingredients

- Aniline : Biodegradation [%] : 97 (120 h)

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 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. : 2920

14.2. UN proper shipping name

- Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Ethanol, Nitric acid)

14.3. Transport hazard class(es)

- Hazard Label(s)



- Class : 8: Corrosive substances
3: Flammable liquids
- H.I. nr : 83

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SECTION 14. Transport information (continued)

• Classification code : CF1

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-C

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
H271 - May cause fire or explosion; strong oxidizer
H301 - Toxic if swallowed
H302 - Harmful if swallowed
H311 - Toxic in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H331 - Toxic if inhaled.
H341 - Suspected of causing genetic defects.
H351 - Suspected of causing cancer.
H372 - Causes damage to organs ... through prolonged or repeated exposure
H400 - Very toxic to aquatic life.

Revision : 9**Print date** : 19 / 6 / 2015**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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Carbolic fuchsin RAL

365240

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

1.1. Product identifier

Trade name : Carbolic fuchsin 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 S.A.S.
Site Montesquieu
33651 MARTILLAC CEDEX France
Tel : +33 (0) 5 57 96 04 04 Fax : +33 (0) 5 57 96 04 05
www.ral-diagnostics.com
Email: fds@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

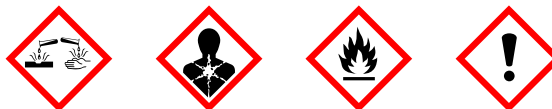
Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

- Health hazards : Acute toxicity, Oral - Category 4 - Warning - (CLP : Acute Tox. 4) - H302
Skin corrosion - Category 1B - Danger - (CLP : Skin Corr. 1B) - H314
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318
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 : GHS05 - GHS08 - GHS02 - GHS07
- Signal words : Danger
- Hazard statements : H226 - Flammable liquid and vapour
H314 - Causes severe skin burns and eye damage.
H341 - Suspected of causing genetic defects.
H302 - Harmful if swallowed
- Precautionary statements
 - Prevention : P281 - Use personal protective equipment as required
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
P302+350 - IF ON SKIN: Gently wash with plenty of soap and water
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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Carbolic fuchsin 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
Basic fuchsin, diamant	< 1 %	632-99-5	211-189-6	-----	----	Acute Tox. 4 (Oral);H302 Carc. 2;H351
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
Ethanol	ca 15 %	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-XXXX	Flam. Liq. 2;H225

SECTION 4. First aid measures

4.1. Description of first aid measures

First aid

- **Inhalation** : Take victim to fresh air. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Remove contaminated clothing and shoes. Rinse immediately with plenty of water. Seek medical attention immediately.
- **Eye contact** : Rinse immediately with plenty of water. Contact ophthalmologist immediately.
- **Ingestion** : Rinse mouth. Do not induce vomiting because of corrosive effects. 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.
- **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

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 container 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).

• 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 : Dark 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

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SECTION 9. Physical and chemical properties (continued)

Flash point [°C] : 48.7

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 : 0.324-0.564

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 : Open flame. Overheating. Sparks.

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SECTION 10. Stability and reactivity (continued)

10.5. Incompatible materials

Materials to avoid : Metals.

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

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 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 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

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

On ingredients

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

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SECTION 12. Ecological information (continued)

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 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

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 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.

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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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