

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reference number: 360100 Revision date: 4/16/2021 Supersedes version of: 4/22/2016 Version: 11.0

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

1.1. Product identifier

Product form : Mixture

Product name : Armand solution

Product code : 360100

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

1.2.1. Relevant identified uses

Main use category : For professional use only

Use of the substance/mixture : In vitro diagnostic medical device.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

RAL DIAGNOSTICS Site Montesquieu 33650 MARTILLAC - FRANCE

T 33 05 57 96 04 04 - F 33 05 57 96 04 05

commercial@ral-diagnostics.fr - www.ral-diagnostics.com

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|--|--|--|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | +356 2545 6504 | |
| United Kingdom | National Poisons Information Service (Birmingham Centre) City Hospital | Dudley Road B18 7QH Birmingham | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226 Skin corrosion/irritation, Category 1, Sub-Category 1B H314 Skin sensitisation, Category 1 H317 Germ cell mutagenicity, Category 2 H341 Carcinogenicity, Category 2 H351 Specific target organ toxicity — Repeated exposure, Category 1 H372

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of causing cancer. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









GHS02

GHS05

GHS07

GHS08

Signal word (CLP)

: Danger

Contains

: Nitric acid 69%; Anilin

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects.

H351 - Suspected of causing cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves, protective clothing, eye protection, face

protection.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a

POISON CENTER or doctor.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| Ethyl alcohol substance with national workplace exposure limit(s) (GB, IE) | (CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5 (REACH-no) 01-2119457610-43 | 25 - 50 | Flam. Liq. 2, H225 |
| Nitric acid 69% substance with national workplace exposure limit(s) (GB, IE, MT); substance with a Community workplace exposure limit | (CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297- 23XXXX | 10 - 20 | Ox. Liq. 3, H272 Skin Corr. 1, H314 |
| Anilin substance with national workplace exposure limit(s) (GB, IE); substance with a Community workplace exposure limit | (CAS-No.) 62-53-3 (EC-No.) 200-539-3 (EC Index-No.) 612-008-00-7 | 1 - 5 | Carc. 2, H351 Muta. 2, H341 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 1, H372 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 |

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| Methylene blue | (CAS-No.) 61-73-4 (EC-No.) 200-515-2 | 1 - 5 | Acute Tox. 4 (Oral), H302 | |
|----------------|---|-------|---------------------------|--|
|----------------|---|-------|---------------------------|--|

| Specific concentration limits: | | |
|--------------------------------|---|---|
| Name | Product identifier | Specific concentration limits |
| Nitric acid 69% | (CAS-No.) 7697-37-2 (EC-No.) 231-714-2 (EC Index-No.) 007-004-00-1 (REACH-no) 01-2119487297- 23XXXX | (5 ≤C < 20) Skin Corr. 1B, H314 (20 ≤C ≤ 65) Met. Corr. 1, H290 (20 ≤C ≤ 65) Skin Corr. 1A, H314 (65 ≤C < 100) Ox. Liq. 3, H272 (65 ≤C < 100) Met. Corr. 1, H290 (65 ≤C < 100) Skin Corr. 1A, H314 |
| Anilin | (CAS-No.) 62-53-3 (EC-No.) 200-539-3 (EC Index-No.) 612-008-00-7 | (0.2 ≤C < 1) STOT RE 2, H373 (1 ≤C < 100) STOT RE 1, H372 |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

: Rinse skin with water/shower. Take off immediately all contaminated clothing. First-aid measures after skin contact

Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

: Flammable liquid and vapour. Fire hazard Hazardous decomposition products in case : Toxic fumes may be released.

of fire

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Selfcontained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters

sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces,

sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should

not be allowed out of the workplace. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Storage temperature : 15 - 25 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| Nitric acid 69% (7697-37-2) | | |
|--|---|--|
| EU - Indicative Occupational Exposure Limit (IOEL) | | |
| Local name | Nitric acid | |
| IOEL STEL | 2.6 mg/m³ | |
| IOEL STEL [ppm] | 1 ppm | |
| Regulatory reference | COMMISSION DIRECTIVE 2006/15/EC | |
| Ireland - Occupational Exposure Limits | | |
| Local name | Nitric acid | |
| OEL STEL | 2.6 mg/m³ | |
| OEL STEL [ppm] | 1 ppm | |
| Notes (IE) | IOELV (Indicative Occupational Exposure Limit Values) | |
| Regulatory reference Chemical Agents Code of Practice 2020 | | |
| Malta - Occupational Exposure Limits | | |
| Local name | Nitric acid | |

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| Nitric acid 69% (7697-37-2) | | |
|---|---|--|
| OEL STEL | 2.6 mg/m³ | |
| OEL STEL [ppm] | 1 ppm | |
| Regulatory reference | S.L.424.24 - Chemical Agents at Work Regulations (L.N.57 of 2018) | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Nitric acid | |
| WEL STEL (OEL STEL) | 2.6 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 1 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| Ethyl alcohol (64-17-5) | | |
|---|---------------------------------------|--|
| Ireland - Occupational Exposure Limits | | |
| Local name | Ethanol [Ethyl alcohol] | |
| OEL STEL [ppm] | 1000 ppm | |
| Regulatory reference | Chemical Agents Code of Practice 2020 | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Ethanol | |
| WEL TWA (OEL TWA) [1] | 1920 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 1000 ppm | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

| Anilin (62-53-3) | |
|--|---|
| EU - Indicative Occupational Exposure Limit (IOEL) | |
| Local name | Aniline |
| IOEL TWA | 1.94 mg/m³ |
| IOEL STEL | 3.87 mg/m³ |
| IOEL STEL [ppm] | 1 ppm |
| Notes | skin. SCOEL Recommendations (2010/Ongoing) |
| Regulatory reference | COMMISSION DIRECTIVE (EU) 2019/1831 |
| Ireland - Occupational Exposure Limits | |
| Local name | Aniline |
| OEL TWA [1] | 3.8 mg/m³ |
| OEL TWA [2] | 1 ppm |
| OEL STEL | 11.4 mg/m³ |
| OEL STEL [ppm] | 3 ppm |
| Notes (IE) | Sk (Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body), Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE)) |

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| Anilin (62-53-3) | | |
|---|---|--|
| Regulatory reference | Chemical Agents Code of Practice 2020 | |
| United Kingdom - Occupational Exposure Limits | | |
| Local name | Aniline | |
| WEL TWA (OEL TWA) [1] | 4 mg/m³ | |
| WEL TWA (OEL TWA) [2] | 1 ppm | |
| WEL STEL (OEL STEL) | 12 mg/m³ | |
| WEL STEL (OEL STEL) [ppm] | 3 ppm | |
| Remark (WEL) | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) | |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE | |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

| Eye protection: | |
|-----------------|--|
| Safety glasses | |

8.2.2.2. Skin protection

| Skin and body protection: | |
|-----------------------------------|--|
| Wear suitable protective clothing | |

| Hand protection: | |
|-------------------|--|
| Protective gloves | |

8.2.2.3. Respiratory protection

| Respiratory protection: | |
|--|--|
| [In case of inadequate ventilation] wear respiratory protection. | |

8.2.2.4. Thermal hazards

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No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : dark blue.

Odour : No data available : No data available Odour threshold : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable Freezing point : No data available : No data available Boiling point

Flash point : 28.03 °C

Auto-ignition temperature : No data available Decomposition temperature : No data available : Not applicable Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20 °C : No data available Relative density : No data available Solubility : No data available : No data available

Partition coefficient n-octanol/water (Log

Pow)

: No data available : No data available

Viscosity, dynamic Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

Viscosity, kinematic

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

| Nitric acid 69% (7697-37-2) | |
|---------------------------------|--------------------------|
| LC50 Inhalation - Rat | 2.65 mg/l/4h |
| LC50 Inhalation - Rat (Vapours) | > 2.65 mg/l Source: ECHA |

| Ethyl alcohol (64-17-5) | |
|-------------------------|--|
| LD50 oral rat | 15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560 |
| LD50 oral | 8300 mg/kg bodyweight Animal: mouse |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat | > 20 mg/l |

| Methylene blue (61-73-4) | |
|--------------------------|---|
| LD50 oral rat | 1180 mg/kg Source: Corporate Solution From Thomson Micromedex |

| Anilin (62-53-3) | |
|-----------------------------|------------------------|
| LD50 oral rat | 442 mg/kg Source: ECHA |
| LD50 dermal rabbit | 1540 mg/kg |
| LC50 Inhalation - Rat [ppm] | 839 ppm/4h |

Skin corrosion/irritation : Causes severe skin burns.

Serious eye damage/irritation : Assumed to cause 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.

| Ethyl alcohol (64-17-5) | |
|-------------------------|----------------------------|
| IARC group | 1 - Carcinogenic to humans |

| Anilin (62-53-3) | |
|------------------|----------------------|
| IARC group | 3 - Not classifiable |

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

| Nitric acid 69% (7697-37-2) | |
|-----------------------------|--|
| NOAEL (oral, rat, 90 days) | 1500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

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| NOAEC (inhalation, rat, gas, 90 days) | 2.15 ppm Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study), Guideline: OECD Guideline 412 (Subacute Inhalation |
|---------------------------------------|--|
| | Toxicity: 28-Day Study) |

| Ethyl alcohol (64-17-5) | |
|--|--|
| | < 9700 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |
| NOAEL (subchronic, oral, animal/female, 90 days) | > 9400 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents) |

| Anilin (62-53-3) | |
|--|---|
| LOAEC (inhalation, rat, vapour, 90 days) | 0.0326 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |
| NOAEC (inhalation, rat, vapour, 90 days) | 0.0092 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |
| STOT-repeated exposure | Causes damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

: Not classified

| Nitric acid 69% (7697-37-2) | |
|-----------------------------|--|
| LC50 - Fish [1] | 4400 mg/l |
| NOEC chronic fish | 97.8 mg/l Test organisms (species): other:Amphiprion ocellaris (anemone fish) Duration: '3 mo' |

| Ethyl alcohol (64-17-5) | | | |
|---|--|--|--|
| LC50 - Fish [1] 14.2 g/l Test organisms (species): Pimephales promelas | | | |
| EC50 72h - Algae [1] 1900 – 1970 mg/l (marine water) | | | |
| EC50 96h - Algae [1] 275 mg/l (freshwater) | | | |
| ErC50 algae 275 mg/l Source: ECHA | | | |
| NOEC (chronic) 9.6 mg/l Test organisms (species): Daphnia magna Duration: '9 d' | | | |
| NOEC chronic fish 250 mg/l | | | |

| Methylene blue (61-73-4) | | |
|--------------------------|--|--|
| LC50 - Fish [1] | 15 mg/l Source: The ECOTOXicology database | |
| EC50 - Crustacea [1] | 2260 mg/l Source: The ECOTOXicology database | |

| Anilin (62-53-3) | |
|--|------------------------|
| LC50 - Fish [1] | 10.6 mg/l Source: ECHA |
| EC50 - Crustacea [1] | 0.16 mg/l |
| EC50 72h - Algae [1] 175 mg/l Source: ECHA | |

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| NOEC (chronic) | 0.016 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|-------------------|--|
| NOEC chronic fish | 0.39 mg/l Test organisms (species): Pimephales promelas Duration: '32 d' |

12.2. Persistence and degradability

| Ethyl alcohol (64-17-5) | |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

12.3. Bioaccumulative potential

| Nitric acid 69% (7697-37-2) | |
|---|--------------------|
| Partition coefficient n-octanol/water (Log Pow) | -0.21 Source: ICSC |

| | Ethyl alcohol (64-17-5) | | | |
|---|--|---------------------|--|--|
| | Partition coefficient n-octanol/water (Log Pow) -0.32 Source: ICSC | | | |
| Bioaccumulative potential No bioaccumulation. | | No bioaccumulation. | | |

| Methylene blue (61-73-4) | |
|---|-------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 5.85 Source: ChemIDplus |

| Anilin (62-53-3) | |
|---|-------------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.94 Source: ICSC |

12.4. Mobility in soil

| Anilin (62-53-3) | | |
|------------------|------------------|------------------------|
| | Mobility in soil | 8 – 497.7 Source: HSDB |

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects Other adverse effects

Other adverse effects : Not release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting

instructions. Dispose in a safe manner in accordance with local/national

regulations.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|-------------------------------------|--|-------------------------------------|--|--|
| 14.1. UN number | | | | |
| UN 2920 | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shippin | g name | | | |
| CORROSIVE LIQUID, FLAMMABLE, N.O.S. | CORROSIVE LIQUID, FLAMMABLE, N.O.S. | Corrosive liquid, flammable, n.o.s. | CORROSIVE LIQUID, FLAMMABLE, N.O.S. | CORROSIVE LIQUID, FLAMMABLE, N.O.S. |

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| Transport document descr | iption | | | |
|---|--|------------------------------------|------------------------------------|------------------------------------|
| UN 2920 CORROSIVE LIQUID, FLAMMABLE, N.O.S., 8 (3), II, (D/E) | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard o | class(es) | | | |
| 8 (3) | 8 (3) | 8 (3) | 8 (3) | 8 (3) |
| 8 | 8 3 | 8 3 | 8 3 | 8 3 |
| 14.4. Packing group | | | | |
| II | II | II | II | II |
| 14.5. Environmental haz | ards | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information | ation available | | | |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : CF1 Special provisions (ADR) : 274 Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP15

Portable tank and bulk container instructions : T11 (ADR)

Portable tank and bulk container special : TP2, TP27

provisions (ADR)

Tank code (ADR) : L4BN Vehicle for tank carriage : FL Transport category (ADR) : 2 : S2 Special provisions for carriage - Operation

(ADR)

Hazard identification number (Kemler No.) : 83

Orange plates

83 2920

Tunnel restriction code (ADR) : D/E EAC code : •3W APP code : A(fl)

Transport by sea

Special provisions (IMDG) : 274 Limited quantities (IMDG) :1L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T11 Tank special provisions (IMDG) : TP2, TP27

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EmS-No. (Fire) · F-F EmS-No. (Spillage) : S-C Stowage category (IMDG) : C

Stowage and handling (IMDG) : SW1, SW2

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

MFAG-No : 132

Air transport

: E2 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) : Y840 PCA limited quantity max net quantity (IATA) : 0.5L PCA packing instructions (IATA) : 851 PCA max net quantity (IATA) : 1L CAO packing instructions (IATA) : 855 CAO max net quantity (IATA) : 30L ERG code (IATA) :8F

Inland waterway transport

Classification code (ADN) : CF1 Special provisions (ADN) : 274 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2

: PP, EP, EX, A Equipment required (ADN)

Ventilation (ADN) : VE01 : 1

Number of blue cones/lights (ADN)

Rail transport

Classification code (RID) : CF1 Special provisions (RID) : 274 Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02 Mixed packing provisions (RID) : MP15 Portable tank and bulk container instructions : T11

(RID)

Portable tank and bulk container special

provisions (RID)

: TP2, TP27

Tank codes for RID tanks (RID) : L4BN Transport category (RID) : 2 Colis express (express parcels) (RID) : CE6 Hazard identification number (RID) : 83

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | | |
|------------------------|--|----------|----------|--|
| Section | Changed item | Change | Comments | |
| | Supersedes | Modified | | |
| | Revision date | Modified | | |
| 2.1 | Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD] | Added | | |
| 2.2 | Precautionary statements (CLP) | Modified | | |
| 2.2 | Hazard statements (CLP) | Modified | | |
| 3 | Composition/information on ingredients | Modified | | |
| 7.2 | Storage conditions | Added | | |
| 15.2 | Chemical safety assessment | Added | | |
| 16 | Abbreviations and acronyms | Added | | |

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| ATE | Acute Toxicity Estimate | |
| BLV | Biological limit value | |
| CAS-No. | Chemical Abstract Service number | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC50 | Median effective concentration | |
| EC-No. | European Community number | |
| EN | European Standard | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| OEL | Occupational Exposure Limit | |

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| PBT | Persistent Bioaccumulative Toxic | |
|-------|---|--|
| PNEC | Predicted No-Effect Concentration | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| SDS | Safety Data Sheet | |
| vPvB | Very Persistent and Very Bioaccumulative | |
| WGK | Water Hazard Class | |

| Full text of H- and EUH-statements: | | | | |
|-------------------------------------|--|--|--|--|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 | | | |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 | | | |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 | | | |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 | | | |
| Aquatic Acute 1 | Hazardous to the aquatic environment — Acute Hazard, Category 1 | | | |
| Carc. 2 | Carcinogenicity, Category 2 | | | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | | | |
| Flam. Liq. 2 | Flammable liquids, Category 2 | | | |
| Met. Corr. 1 | Corrosive to metals, Category 1 | | | |
| Muta. 2 | Germ cell mutagenicity, Category 2 | | | |
| Ox. Liq. 3 | Oxidising Liquids, Category 3 | | | |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 | | | |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A | | | |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B | | | |
| Skin Sens. 1 | Skin sensitisation, Category 1 | | | |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 | | | |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 | | | |
| H225 | Highly flammable liquid and vapour. | | | |
| H226 | Flammable liquid and vapour. | | | |
| H272 | May intensify fire; oxidiser. | | | |
| H290 | May be corrosive to metals. | | | |
| 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. | | | |
| H373 | May cause damage to organs through prolonged or repeated exposure. | | | |

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| H400 | Very toxic to aquatic life. | |
|------|-----------------------------|--|
|------|-----------------------------|--|

The classification complies

: ATP 12

with

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.