



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : DETECT FUITE - 650/500ml net

Product code : 632080000 / 13304 - UFI : T2P5-K0C8-C007-V666

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

LEAK DETECTOR

As spray

PROFESSIONAL USE

1.3. Details of the supplier of the safety data sheet

Registered company name : A.M.P.E.R.E. System.

Address : 3 Rue Antoine Balard - P.A. du Vert Galant .95310.SAINT OUEN L'AUMONE.FRANCE.

Telephone : +33 1 34 64 72 72. Fax : +33 1 30 37 55 17.

fds@ampersystem.com - <http://www.ampersystem.com>

1.4. Emergency telephone number

:Deutschland : Giftnotruf der Charité - Universitätsmedizin Berlin - CBF, Haus VIII (Wirtschaftsgebäude), UG - Hindenburgdamm 30 12203 Berlin : +49 (0) 30 19240 Autriche (Österreich) : Vergiftungsinformationszentrale - Stubenring 6 1010 Wien : +43 1 406 43 43 Suisse (Schweiz) : Tox Info Suisse - Freiestrasse 16 8032 Zürich : 145 (aus dem Ausland: +41 44 251 51 51) Auskunft: +41 44 251 66 66

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 3 (Aerosol 3, H229).

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Signal Word :

WARNING

Hazard statements :

H229

Pressurised container: May burst if heated.

Precautionary statements - General :

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P103

Read carefully and follow all instructions.

Precautionary statements - Prevention :

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P273

Avoid release to the environment.

Precautionary statements - Storage :

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements - Disposal :

P501

Dispose of contents / container in accordance with local / regional / national / international regulations.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) \geq 0.1% published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances \geq 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 603-053-00-3 CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35-XXXX 2-METHYLPENTANE-2,4-DIOL	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315	[i]	1 <= x % < 2.5
CAS: 10024-97-2 EC: 233-032-0 REACH: 01-2119970538-25-XXXX OXYDE DE DIAZOTE	GHS03, GHS04 Dgr Ox. Gas 1, H270 Press. Gas, H280	[i] [vii]	1 <= x % < 2.5
CAS: 34590-94-8 EC: 252-104-2 REACH: 01-2119450011-60-XXXX (2-MÉTHOXYMÉTHYLETHOXY)PROPANOL		[i]	0.1 <= x % < 1
CAS: 110-91-8 EC: 203-815-1 REACH: 01-2119496057-30-XXXX MORPHOLINE	GHS08, GHS06, GHS05, GHS02 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Acute Tox. 3, H331 Repr. 2, H361fd	[i] [ii]	0.1 <= x % < 1
CAS: 7632-00-0 EC: 231-555-9 REACH: 01-2116471836-27-XXXX SODIUM NITRITE	GHS06, GHS09, GHS03 Dgr Ox. Sol. 3, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 1		0.1 <= x % < 1
INDEX: 603-011-00-4 CAS: 109-86-4 EC: 203-713-7 REACH: 01-2119494721-33-XXXX 2-METHOXYETHANOL	GHS02, GHS08, GHS07 Dgr Flam. Liq. 3, H226 Repr. 1B, H360FD Acute Tox. 4, H332 Acute Tox. 4, H312 Acute Tox. 4, H302	[i] [ii] [vi]	0 < x % < 0.003
INDEX: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH: 01-2119457892-27 SODIUM HYDROXIDE	GHS05 Dgr Skin Corr. 1A, H314	[i]	0 < x % < 0.002

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 110-91-8 EC: 203-815-1 REACH: 01-2119496057-30-XXXX MORPHOLINE		dermal: ATE = 500 mg/kg BW oral: ATE = 1910 mg/kg BW
CAS: 7632-00-0 EC: 231-555-9 REACH: 01-2116471836-27-XXXX SODIUM NITRITE		oral: ATE = 180 mg/kg BW
INDEX: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH: 01-2119457892-27 SODIUM HYDROXIDE	Skin Corr. 1A: H314 C>= 5% Skin Corr. 1B: H314 2% <= C < 5% Skin Irrit. 2: H315 0.5% <= C < 2% Eye Dam. 1: H318 C>= 2% Eye Irrit. 2: H319 0.5% <= C < 2%	

Information on ingredients :

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[ii] Carcinogenic, mutagenic or reprotoxic (CMR) substance.

[vi] Substances of very high concern (SVHC).

[vii] Propellant gas

Other data :

The percentage of propellant is not taken into account for the labelling following the CLP regulation endorsed by CARACAL and validated by the European Commission on 03 December 2020.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

If a large quantity in inhaled, move the patient into the fresh air and keep him / her warm and still.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Wash thoroughly with soft, clean water for 10 minutes holding the eyelids open.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water or a recognised cleaner. If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

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

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist

- foam

- multipurpose ABC powder

- BC powder

- carbon dioxide (CO₂)

-

Carbo dioxide, chemical powders, foams, and other extinguishing gases.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO₂)

- nitrogen oxide (NO)

- nitrogen dioxide (NO₂)

5.3. Advice for firefighters

No data available.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.
Handle in well-ventilated areas.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.
Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

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6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.
Ensure that there is adequate ventilation, especially in confined areas.

-

No smoking.
Apply in short pulses, without pressing down for long periods.
Do not breathe spray.

Fire prevention :

Handle in well-ventilated areas.
Do not pierce or burn, even after use.
Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.
Observe precautions stated on label and also industrial safety regulations.
Do not breathe in aerosols.
Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Stock between +5°C and + 30°C in well ventilated area.

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Storage

Keep out of reach of children.
Keep the container tightly closed in a dry, well-ventilated place.
The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union :

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CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
34590-94-8 (2-MÉTHOXYMÉTHYLETHOXY) PROPANOL	308	50	-	-	-
110-91-8 MORPHOLINE	36	10	72	20	-
109-86-4 2-METHOXYETHANOL	-	1	-	-	-

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-41-5 2-METHYLPENTANE-2,4-DIOL	25 ppm 123 mg/m3	25 ppm 123 mg/m3			
10024-97-2 OXYDE DE DIAZOTE	100 ppm 183 mg/m3				
34590-94-8 (2-MÉTHOXYMÉTHYLETHOXY) PROPANOL	50 ppm 308 mg/m3				
110-91-8 MORPHOLINE	10 ppm 36 mg/m3	20 ppm 72 mg/m3			
109-86-4 2-METHOXYETHANOL	1 ppm 3 mg/m3				
1310-73-2 SODIUM HYDROXIDE		2 mg/m3			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

SODIUM NITRITE (CAS: 7632-00-0)

Final use:Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Workers.**Inhalation.
Short term systemic effects.
2 mg of substance/m3Inhalation.
Long term systemic effects.
2 mg of substance/m3

MORPHOLINE (CAS: 110-91-8)

Final use:Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Workers.**Dermal contact.
Long term systemic effects.
1.04 mg/kg body weight/dayInhalation.
Long term local effects.
36 mg of substance/m3Inhalation.
Long term systemic effects.
91 mg of substance/m3**Final use:**Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :Exposure method:
Potential health effects:
DNEL :**Consumers.**Ingestion.
Long term systemic effects.
6.3 mg/kg body weight/dayDermal contact.
Long term systemic effects.
0.52 mg/kg body weight/dayInhalation.
Long term local effects.
3.2 mg of substance/m3Inhalation.
Long term systemic effects.
45 mg of substance/m3

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Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 18 mg of substance/m³

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)

Final use:**Workers.**

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 283 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 308 mg of substance/m³

Final use:**Consumers.**

Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 1.67 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 15 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 37.2 mg of substance/m³

2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)

Final use:**Workers.**

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 98 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 14 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 49 mg of substance/m³

Final use:**Consumers.**

Exposure method: Inhalation.
Potential health effects: Short term local effects.
DNEL : 49 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 3.5 mg of substance/m³

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 25 mg of substance/m³

Predicted no effect concentration (PNEC):

SODIUM NITRITE (CAS: 7632-00-0)

Environmental compartment: Soil.
PNEC : 0.000733 mg/kg

Environmental compartment: Fresh water.
PNEC : 0.0054 mg/l

Environmental compartment: Sea water.

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PNEC :	0.00616 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.0054 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.0195 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0223 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 21 mg/l
MORPHOLINE (CAS: 110-91-8)	
Environmental compartment: PNEC :	Soil. 0.239 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.1 mg/l
Environmental compartment: PNEC :	Sea water. 0.01 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 0.28 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1.49 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.149 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l
(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)	
Environmental compartment: PNEC :	Soil. 2.74 mg/kg
Environmental compartment: PNEC :	Fresh water. 19 mg/l
Environmental compartment: PNEC :	Sea water. 1.9 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 190 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 70.2 mg/kg
Environmental compartment: PNEC :	Marine sediment. 7.02 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 4168 mg/l
2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)	
Environmental compartment: PNEC :	Soil. 0.11 mg/kg
Environmental compartment:	Fresh water.

PNEC :	0.429 mg/l
Environmental compartment: PNEC :	Sea water. 0.0429 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1.79 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.179 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 20 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard ISO 16321.

Recommended protection.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- NOP3 (Blue + white)

Handling in well ventilated area.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Spray : Spray : Pressure to 20°C : 6.0 bars
Booster : CAS 75-37-6 : colorless liquid propellant / exploded characteristics % (vol) : 4-18.5

Physical state

Physical state : Fluid liquid.
Spray.

Colour

Unspecified

Odour

Odour threshold : Not stated.

Melting point

Melting point/melting range : Not relevant.

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

Flammability

Flammability (solid, gas) : Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.

Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not relevant.

Decomposition temperature

Decomposition point/decomposition range : Not relevant.

pH

pH (aqueous solution) : Not stated.

pH : Not relevant.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Partially soluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Below 110 kPa (1.10 bar).

Density and/or relative density

Density : 0.994 - 1.014

Relative vapour density

Vapour density : Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

Aerosols

Chemical combustion heat : < 20 kJ/g.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

Avoid storing more than 2 years

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Avoid :

- frost

Keep away from oxydizing agent, acids or base

Keep away from sources of ignition.

10.5. Incompatible materials

Keep away from oxydizind agent.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)
- nitrogen oxide (NO)
- nitrogen dioxide (NO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1. Substances****a) Acute toxicity :**

SODIUM NITRITE (CAS: 7632-00-0)

Oral route :

LD50 = 180 mg/kg body weight
Species : Rat

MORPHOLINE (CAS: 110-91-8)

Oral route :

LD50 = 1910 mg/kg body weight
Species : Rat

Dermal route :

LD50 = 500 mg/kg body weight
Species : Rabbit

Inhalation route (Vapours) :

LC50 8 mg/l
Species : Rat

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)

Oral route :

LD50 > 5000 mg/kg body weight
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 > 9510 mg/kg body weight
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

b) Skin corrosion/skin irritation :

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)

Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

MORPHOLINE (CAS: 110-91-8)

Corrosivity :

Causes severe skin burns.

c) Serious damage to eyes/eye irritation :

No data available.

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2. Mixture**11.1.2.1 Information on hazard classes****a) Acute toxicity :**

Oral route : No data available.

Dermal route : No data available.

Inhalation route (Dusts/mist) : No data available.

b) Skin corrosion/skin irritation :

No data available.

c) Serious damage to eyes/eye irritation :

Splashes in the eyes may cause irritation and reversible damage

d) Respiratory or skin sensitisation :

No data available.

e) Germ cell mutagenicity :

No data available.

f) Carcinogenicity :

No data available.

g) Reproductive toxicant :

No data available.

h) Specific target organ systemic toxicity - single exposure :

No data available.

i) Specific target organ systemic toxicity - repeated exposure :

No data available.

j) Aspiration hazard :

No data available.

11.1.2.2 Other information**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 110-91-8 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

11.2. Information on other hazards**Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

SECTION 12 : ECOLOGICAL INFORMATION**12.1. Toxicity****12.1.1. Substances**

SODIUM NITRITE (CAS: 7632-00-0)

Fish toxicity :

LC50 < 26.3 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

NOEC = 6.16 mg/l

Species : *Ictalurus punctatus*

Duration of exposure : 28 days

Crustacean toxicity :

EC50 = 15.4 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 9.86 mg/l

Duration of exposure : 28 days

Algae toxicity :

ECr50 > 100 mg/l

Species : *Desmodesmus subspicatus*

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

MORPHOLINE (CAS: 110-91-8)

Fish toxicity :

Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity :

Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)NOEC = 5 mg/l
Species : Daphnia magna
Duration of exposure : 21 days

Algae toxicity :

Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)

Fish toxicity :

LC50 = 10000 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 1919 mg/l
Species : Daphnia sp.
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)NOEC = 0.5 mg/l
Species : Daphnia magna
Duration of exposure : 21 days
OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity :

ECr50 = 969 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)NOEC > 969 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h
OECD Guideline 201 (Alga, Growth Inhibition Test)**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability**12.2.1. Substances**

SODIUM NITRITE (CAS: 7632-00-0)

Biodegradability :

Rapidly degradable.

MORPHOLINE (CAS: 110-91-8)

Biodegradability :

Rapidly degradable.

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

OXYDE DE DIAZOTE (CAS: 10024-97-2)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential**12.3.1. Substances**

MORPHOLINE (CAS: 110-91-8)

Octanol/water partition coefficient :

log K_{ow} = -2.55

(2-MÉTHOXYMÉTHYLETHOXY)PROPANOL (CAS: 34590-94-8)
Octanol/water partition coefficient : log K_{ow} = 0.004

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2025 - IMDG 2024 [42-24] - ICAO/IATA 2025 [66]).

14.1. UN number or ID number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

14.3. Transport hazard class(es)

- Classification :



2.2

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5A	-	2.2	-	1 L	190 327 344 625	E0	3	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.2	-	-	203	75 kg	203	150 kg	A98 A145 A167 A802	E0

DETECT FUITE - 650/500ml net - 632080000 / 13304

	2.2	-	-	Y203	30 kg G	-	-	A98 A145 A167 A802	E0
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For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15 : REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Classification and labelling information included in section 2:**

The following regulations have been used:

- Directive 75/324/CEE modified by directive 2013/10/UE
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

Container information:

No data available.

Particular provisions :

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:
<https://echa.europa.eu/fr/authorisation-list>.

Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

The mixture does not contain any substance posing a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 1 : Slightly hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION**Wording of the phrases mentioned in section 3 :**

H226	Flammable liquid and vapour.
H270	May cause or intensify fire; oxidiser.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H360FD	May damage fertility. May damage the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

LQ : Limited Quantity

EQ : Excepted Quantity

EmS : Emergency Schedule

E : Packing Instruction

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

CMR: Carcinogenic, mutagenic or reprotoxic.

STEL : Short-term exposure limit

TWA : Moyenne pondérée dans le temps

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : Agreement concerning the international carriage of dangerous goods by road.

IATA : International Air Transport Association.

IMDG : International Maritime Dangerous Goods.

ICAO : International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.

POP: Persistent Organic Pollutant.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern.

WGK : Wassergefährdungsklasse (Water Hazard Class).

The information contained in this safety data sheet is based on our current knowledge at the time of publication and is provided in good faith. It does not constitute any guarantee of specific product properties nor establish any contractual relationship. The user remains solely responsible for safe and compliant use of the product in accordance with current regulations.

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