

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

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 : BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML
Product code : 560737.
UFI : VPD3-F0GC-J00N-FVHH

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

Air freshener

1.3. Details of the supplier of the safety data sheet

Registered company name : PROVEN ORAPI.
Address : 225 Allée des Cèdres.01150.SAINT VULBAS .FRANCE.
Telephone : 0 810 400 402. Fax : 04 92 13 30 32.
FDS@orapi.com

1.4. Emergency telephone number : +33 (0)1 45 42 59 59.

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

Other emergency numbers

Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

>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 1 (Aerosol 1, H222 - H229).
Eye irritation, Category 2 (Eye Irrit. 2, H319).
May produce an allergic reaction (EUH208).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.
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.

Hazard pictograms :



GHS02



GHS07

Signal Word :

DANGER

Additional labeling :

EUH208

Contains 2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE. May produce an allergic reaction.

Hazard statements :

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H319

Causes serious eye irritation.

Precautionary statements - General :

P101

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

P102

Keep out of reach of children.

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.

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P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection, face protection.
Precautionary statements - Response :	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
Precautionary statements - Storage :	
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122oF.
Precautionary statements - Disposal :	
P501	Dispose of contents and container in accordance with local regulations.
Other information :	
	Apply by brief pressure
	For safety, use only for its intended use and according to the instructions

> **2.3. Other hazards**

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 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 > = 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: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 REACH: 01-2119472128-37	GHS02, GHS04 Dgr Flam. Gas 1A, H220	[i] [vii]	25 <= x % < 50
DIMETHYL ETHER CAS: 532-32-1 EC: 208-534-8	GHS07 Wng Eye Irrit. 2, H319	[i]	1 <= x % < 2.5
SODIUM BENZOATE CAS: 68439-50-9 EC: 500-213-6	GHS07, GHS09 Wng Eye Irrit. 2, H319		0 <= x % < 1
ALCOHOLS C12-14, ETHOXYLATED	Aquatic Chronic 3, H412 Aquatic Acute 1, H400 M Acute = 1		
CAS: 7632-00-0 EC: 231-555-9 REACH: 01-2119471836-27	GHS06, GHS09, GHS03 Dgr Ox. Sol. 3, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 1
SODIUM NITRITE			
CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[i]	0 <= x % < 1
PROPAN-2-OL CAS: 137-16-6 EC: 205-281-5 REACH: 01-2119527780-39	GHS06, GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 Acute Tox. 2, H330		0 <= x % < 1
SODIUM N-LAUROYLSARCOSINATE			

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CAS: 7173-51-5 DIDECYLDIMETHYLAMMONIUM CHLORIDE	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 1, H400 M Acute = 10		0 <= x % < 1
CAS: 1336-21-6 EC: 215-647-6 AMMONIA SOLUTION	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 1
CAS: 2682-20-4 EC: 220-239-6 2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE	GHS06, GHS05, GHS09 Dgr Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		0 <= x % < 1

> Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 7632-00-0 EC: 231-555-9 REACH: 01-2119471836-27 SODIUM NITRITE	Ox. Sol. 3: H272 C>= 100%	oral: ATE = 180 mg/kg BW
CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25 PROPAN-2-OL		inhalation: ATE = 25 mg/l 4h (vapours) dermal: ATE = 13900 mg/kg BW oral: ATE = 5840 mg/kg BW
CAS: 137-16-6 EC: 205-281-5 REACH: 01-2119527780-39 SODIUM N-LAUROYLSARCOSINATE	Skin Irrit. 2: H315 >=30.01% Eye Dam. 1: H318 C>= 30.01% Eye Irrit. 2: H319 1% <= C < 30.01%	oral: ATE = 5000 mg/kg BW
CAS: 7173-51-5 DIDECYLDIMETHYLAMMONIUM CHLORIDE		oral: ATE = 329 mg/kg BW
CAS: 1336-21-6 EC: 215-647-6 AMMONIA SOLUTION		oral: ATE = 350 mg/kg BW
CAS: 2682-20-4 EC: 220-239-6 2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE	Skin Sens. 1A: H317 C>= 0.0015%	inhalation: ATE = 0.11 mg/l (dust/mist) dermal: ATE = 242 mg/kg BW oral: ATE = 247 mg/kg BW

Information on ingredients :

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

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

[vii] Propellant gas

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>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 :

In the event of an allergic reaction, seek medical attention.

In case of massive inhalation, transport the patient to fresh air and keep him warm and at rest.

In the event of splashes or contact with eyes :

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

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.

Rinse thoroughly with water. If discomfort persists, consult a doctor.

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.

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

See section 11.

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

Treat symptomatically.

Information for the doctor :

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the patient's clinical condition. The severity of the lesions, the prognosis of intoxication depend directly on the concentration and duration of exposure.

>SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

> Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)
- powder

Prevent the effluent of fire-fighting measures from entering drains or waterways.

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)

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Information on inflammability properties, see Chapter 9.

> 5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Firefighters should use standard protective equipment and in enclosed spaces, individual breathing apparatus (SCBA). Cool containers / tanks with water spray. Suppress gases / vapors / mists with water spray.

>SECTION 6 : ACCIDENTAL RELEASE MEASURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all local regulations.

> 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

Spilled product can make surfaces slippery.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid any contact with the skin and eyes.

Prevent further leakage or spillage if possible without danger.

Eliminate all possible sources of ignition and ventilate the premises.

For first aid worker

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

Evacuate personnel to safe places.

Ventilate area.

Isolate the area.

Contained breathing apparatus in confined spaces / if oxygen unsatisfactory / in case of significant emissions.

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.

Use absorbents.

Disposal should be carried out by an approved recoverer.

> 6.4. Reference to other sections

See Chapters 7 and 8 regarding protection methods.

>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.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Avoid contact with skin, eyes and clothes.

Do not breathe gas/fumes/vapour/spray.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

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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.
- Avoid eye contact with this mixture.
- 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

- No data available.

Storage

- Keep out of reach of children.
- Keep the container tightly closed in a dry, well-ventilated place.
- Keep away from all sources of ignition - do not smoke.
- Keep well away from all sources of ignition, heat and direct sunlight.
- 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 (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
115-10-6	1920	1000	-	-	-

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
67-63-0	200 ppm	400 ppm		A4; BEI	

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

CAS	VME :	VME :	Excess	Notes
115-10-6		1000 ppm 1900 mg/m3		8(II)
532-32-1		10 E mg/m3		2 (II)
67-63-0		200 ppm 500 mg/m3		2(II)

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
115-10-6	1000	1920			VLRI	
67-63-0			400	980		84

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
115-10-6	400 ppm 766 mg/m3	500 ppm 958 mg/m3			
67-63-0	400 ppm 999 mg/m3	500 ppm 1250 mg/m3			

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

PROPAN-2-OL (CAS: 67-63-0)

> Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	888 mg/kg body weight/day

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Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 500 mg of substance/m3

> **Final use:**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 26 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 319 mg/kg body weight/day

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 89 mg of substance/m3

SODIUM NITRITE (CAS: 7632-00-0)

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

Exposure method: Inhalation.
Potential health effects: Short term systemic effects.
DNEL : 2 mg of substance/m3

SODIUM BENZOATE (CAS: 532-32-1)

> **Final use:**
Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 34.7 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 4.5 mg of substance/cm2

Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 6.3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 10.4 mg of substance/m3

> **Final use:**
Exposure method: Ingestion.
Potential health effects: Long term systemic effects.
DNEL : 25 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term systemic effects.
DNEL : 20.8 mg/kg body weight/day

Exposure method: Dermal contact.
Potential health effects: Long term local effects.
DNEL : 2.7 g of substance/cm2

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Exposure method: Inhalation.
Potential health effects: Long term local effects.
DNEL : 1.3 mg of substance/m3

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 2.1 mg of substance/m3

DIMETHYL ETHER (CAS: 115-10-6)

Final use:

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 1894 mg of substance/m3

Final use:

Exposure method: Inhalation.
Potential health effects: Long term systemic effects.
DNEL : 471 mg of substance/m3

Workers.

Inhalation.
Long term systemic effects.
1894 mg of substance/m3

Consumers.

Inhalation.
Long term systemic effects.
471 mg of substance/m3

> Predicted no effect concentration (PNEC):

PROPAN-2-OL (CAS: 67-63-0)

Environmental compartment: Soil.
PNEC : 28 mg/kg

Environmental compartment: Fresh water.
PNEC : 140.9 mg/l

Environmental compartment: Sea water.
PNEC : 140.9 mg/l

Environmental compartment: Intermittent waste water.
PNEC : 140.9 mg/l

Environmental compartment: Fresh water sediment.
PNEC : 552 mg/kg

Environmental compartment: Marine sediment.
PNEC : 552 mg/kg

Environmental compartment: Waste water treatment plant.
PNEC : 2251 mg/l

Environmental compartment: Fresh water predators (oral).
PNEC : 0.16 g/kg

SODIUM NITRITE (CAS: 7632-00-0)

Environmental compartment: Soil.
PNEC : 0.733 µg/kg

Environmental compartment: Fresh water.
PNEC : 5.4 µg/l

Environmental compartment: Sea water.
PNEC : 6.16 µg/l

Environmental compartment: Intermittent waste water.
PNEC : 5.4 µg/l

Environmental compartment: Fresh water sediment.

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PNEC :	0.0195 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0223 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 21 mg/l
Environmental compartment: PNEC :	Fresh water predators (oral). 19.5 µg/kg
Environmental compartment: PNEC :	Salt water predators (oral). 22.3 µg/kg
DIMETHYL ETHER (CAS: 115-10-6)	
Environmental compartment: PNEC :	Soil. 0.045 mg/kg
Environmental compartment: PNEC :	Fresh water. 0.155 mg/l
Environmental compartment: PNEC :	Sea water. 0.016 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 1.549 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 0.681 mg/kg
Environmental compartment: PNEC :	Marine sediment. 0.0689 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 160 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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 with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

> - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Natural latex

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

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- PVC (polyvinyl chloride)
- 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.

Exposure controls linked to environmental protection

See Chapters 6, 7, 12 and 13.

>SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.
Spray.

> Colour

Yellow

> 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 (%) 3.4

:

Explosive properties, upper explosivity limit (%) 27

:

> 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 : 8.50 0.5.
Slightly basic.

> Kinematic viscosity

Viscosity : Not stated.

> Solubility

Water solubility : 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) : Above 300 kPa (3 bar).

Density and/or relative density

Density : 1007 g/L à 20°C
Method for determining the density :
ISO 3507 (Laboratory glassware - Pycnometers).

> Relative vapour density

Vapour density : Not stated.

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9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

Aerosols

Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

9.2.2. Other safety characteristics

No data available.

>SECTION 10 : STABILITY AND REACTIVITY

> 10.1. Reactivity

Highly flammable liquids and vapours.

10.2. Chemical stability

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

> 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

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat
- frost
- humidity
- flames and hot surfaces
- temperatures above 50°C. Sources of sparks or ignition.

10.5. Incompatible materials

Acids or bases being able to tackle the case, excessive moisture being able to involve an external corrosion

> 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

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Splashes in the eyes may cause irritation and reversible damage

11.1.1. Substances

> Acute toxicity :

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)

Oral route :

LD50 = 247 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route :

LD50 = 242 mg/kg bodyweight/day
Species : Rat

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	OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Dusts/mist) :	LC50 = 0.11 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity)
AMMONIA SOLUTION (CAS: 1336-21-6)	
Oral route :	LD50 = 350 mg/kg bodyweight/day Species : Rat
DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)	
Oral route :	LD50 = 329 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)	
Oral route :	LD50 = 5000 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Inhalation route (Dusts/mist) :	LC50 > 0.5 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity)
PROPAN-2-OL (CAS: 67-63-0)	
Oral route :	LD50 = 5840 mg/kg bodyweight/day Species : Rat OECD Guideline 401 (Acute Oral Toxicity)
Dermal route :	LD50 = 13900 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Vapours) :	LC50 = 25 mg/l Species : Rat OECD Guideline 403 (Acute Inhalation Toxicity) Duration of exposure : 4 h
SODIUM NITRITE (CAS: 7632-00-0)	
Oral route :	LD50 = 180 mg/kg bodyweight/day Species : Rat
ALCOHOLS C12-14, ETHOXYLATED (CAS: 68439-50-9)	
Oral route :	LD50 > 2000 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 > 2000 mg/kg bodyweight/day Species : Rabbit OECD Guideline 402 (Acute Dermal Toxicity)
Inhalation route (Dusts/mist) :	LC50 > 100 mg/m3 OECD Guideline 403 (Acute Inhalation Toxicity)
SODIUM BENZOATE (CAS: 532-32-1)	
Oral route :	LD50 > 2000 mg/kg bodyweight/day Species : Rat
Dermal route :	LD50 > 2000 mg/kg bodyweight/day

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

Species : Rabbit

Inhalation route (Dusts/mist) : LC50 > 12.2 mg/l
Species : Rat

> Skin corrosion/skin irritation :

SODIUM NITRITE (CAS: 7632-00-0)

Irritation : Average score = 0
Effect observed : Overall irritation score
Species : Rabbit
Duration of exposure : 24 h
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

SODIUM BENZOATE (CAS: 532-32-1)

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

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)

Corrosivity : Causes severe skin burns.

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Corrosivity : Causes severe skin burns.
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)

Corrosivity : No observed effect.
Species : Rabbit
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Irritation : Average score = 2.8
Species : Rabbit
Duration of exposure : 72 h
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

> Serious damage to eyes/eye irritation :

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)

Corneal haze : Average score = 3

SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)

Corneal haze : Average score = 3
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Iritis : Average score = 1.5
Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

The substance produces at least in one animal effects on the conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

The substance produces at least in one animal effects on the conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

Species : Rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)

SODIUM NITRITE (CAS: 7632-00-0)

Species : Rabbit

> Respiratory or skin sensitisation :

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Buehler Test : Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

PROPAN-2-OL (CAS: 67-63-0)

Buehler Test : Non-sensitiser.
Species : Guinea pig
OECD Guideline 406 (Skin Sensitisation)

SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)

Guinea Pig Maximisation Test (GMPT) : Non-sensitiser.
Species : Guinea pig
Other guideline

SODIUM BENZOATE (CAS: 532-32-1)

Local lymph node stimulation test : Non-Sensitiser.
Species : Mouse

> Germ cell mutagenicity :

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro) : Negative.

SODIUM BENZOATE (CAS: 532-32-1)

No mutagenic effect.

Ames test (in vitro) : Negative.

> Carcinogenicity :

SODIUM BENZOATE (CAS: 532-32-1)

Carcinogenicity Test : Negative.
No carcinogenic effect.

> Reproductive toxicant :

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

No toxic effect for reproduction
OECD Guideline 414 (Prenatal Developmental Toxicity Study)

PROPAN-2-OL (CAS: 67-63-0)

No toxic effect for reproduction

SODIUM BENZOATE (CAS: 532-32-1)

No toxic effect for reproduction

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

11.2. Information on other hazards

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

>SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

> 12.1.1. Substances

SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)

Fish toxicity : LC50 = 107 mg/l
Species : Brachydanio rerio
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity : EC50 = 29.7 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity : ECr50 = 79 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

PROPAN-2-OL (CAS: 67-63-0)

Fish toxicity : LC50 = 9640 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

Crustacean toxicity : EC50 > 13299 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity : ECr50 > 1000 mg/l
Species : Scenedesmus subspicatus
Duration of exposure : 72 h

EC10 mg/l
Species : Scenedesmus quadricauda
Duration of exposure : 7 days

SODIUM BENZOATE (CAS: 532-32-1)

Fish toxicity : LC50 = 484 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 > 100 mg/l
Duration of exposure : 96 h

Algae toxicity : ECr50 > 30.5 mg/l
Duration of exposure : 72 h

EC10 mg/l
Duration of exposure : 72 h

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)

Fish toxicity : LC50 = 4.77 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 2.1 mg/l
Species : Pimephales promelas

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

	Duration of exposure : 35 days OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)
Crustacean toxicity :	EC50 = 0.998 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
	NOEC = 0.0442 mg/l Factor M = 1 Species : <i>Daphnia magna</i> Duration of exposure : 21 days EPA OPPTS 850.1300 (<i>Daphnid</i> Chronic Toxicity Test)
Algae toxicity :	ECr50 = 0.0695 mg/l Species : <i>Skeletonema costatum</i> Duration of exposure : 72 h
	EC10 mg/l Factor M = 1 Species : <i>Pseudokirchnerella subcapitata</i> Duration of exposure : 96 h
	0.01 < NOEC <= 0.1 mg/l Factor M = 1
DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)	
Fish toxicity :	LC50 = 0.49 mg/l Species : <i>Brachydanio rerio</i> Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 0.03 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h
Algae toxicity :	ECr50 = 0.06 mg/l Species : <i>Scenedesmus capricornutum</i> Duration of exposure : 72 h
SODIUM NITRITE (CAS: 7632-00-0)	
Fish toxicity :	LC50 = 0.54 mg/l Species : <i>Oncorhynchus mykiss</i> Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 15.4 mg/l Species : <i>Daphnia magna</i> Duration of exposure : 48 h OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
	Species : <i>Daphnia magna</i>
Algae toxicity :	ECr50 > 100 mg/l Species : <i>Scenedesmus subspicatus</i> Duration of exposure : 72 h OECD Guideline 201 (Alga, Growth Inhibition Test)
ALCOHOLS C12-14, ETHOXYLATED (CAS: 68439-50-9)	
Fish toxicity :	LC50 = 1.2 mg/l

BOLDAIR DESTRUCTEUR ODEURS ANIMALES 500 ML - 560737

Species : Oncorhynchus mykiss
Duration of exposure : 96 h
REACH Method C.1 (Acute Toxicity for Fish)

Crustacean toxicity :
EC50 = 0.77 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
Other guideline

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

> **12.2.1. Substances**

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)
Biodegradability : Non-rapidly degradable.

AMMONIA SOLUTION (CAS: 1336-21-6)
Biodegradability : Rapidly degradable.

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)
Biodegradability : Rapidly degradable.

SODIUM N-LAUROYLSARCOSINATE (CAS: 137-16-6)
Biodegradability : Rapidly degradable.

ALCOHOLS C12-14, ETHOXYLATED (CAS: 68439-50-9)
Biodegradability : Rapidly degradable.

SODIUM BENZOATE (CAS: 532-32-1)
Biodegradability : Rapidly degradable.

PROPAN-2-OL (CAS: 67-63-0)
Chemical oxygen demand : DCO = 2.23 g/g
Five-day biochemical oxygen demand : DBO5 = 1.19 g/g
Biodegradability : Rapidly degradable.
BOD5/COD = 0.53

12.3. Bioaccumulative potential

> **12.3.1. Substances**

2-MÉTHYL-2H-ISOTHIAZOLE-3-ONE (CAS: 2682-20-4)
Octanol/water partition coefficient : log K_{ow} = -0.32
OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

Bioaccumulation : BCF = 3.16

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)
Octanol/water partition coefficient : log K_{ow} = 2.59
Bioaccumulation : BCF = 81
OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

PROPAN-2-OL (CAS: 67-63-0)
Octanol/water partition coefficient : log K_{ow} = 0.05
Bioaccumulation : BCF = 3

SODIUM BENZOATE (CAS: 532-32-1)

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Octanol/water partition coefficient : log K_{ow} = 1.88

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

>SECTION 13 : DISPOSAL CONSIDERATIONS

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

To be given to an approved collector. Refer to the prefectural decrees in force.

AEROSOL : do not pierce or burn after use.

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.

Do not pierce or burn even after use.

Refer to the prefectural decrees in force.

Local arrangements :

Recyclable metal housing. Disposal with household waste if the item has a eco-packaging return the item if an authorized waste collector.

>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 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :



2.1

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	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation

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	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69
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IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A802	E0
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0

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:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

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>.

> Explosives precursors :

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

Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

>SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

> Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 :

Classification in accordance with Regulation (EC) No 1272/2008	Classification procedure
Aerosol 1, H222 - H229	Calculation method.
Eye Irrit. 2, H319	Calculation method.
EUH208	Calculation method.

> Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.

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H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

↳ **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.
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
UFI : Unique formulation identifier.
STEL : Short-term exposure limit
TWA : Time Weighted Averages
TMP : French Occupational Illness table
TLV : Threshold Limit Value (exposure)
AEV : Average Exposure Value.
VLRC : Indicative constraint value
ADR : European agreement concerning the international carriage of dangerous goods by Road.
IMDG : International Maritime Dangerous Goods.
IATA : International Air Transport Association.
ICAO : International Civil Aviation Organisation
RID : Regulations concerning the International carriage of Dangerous goods by rail.
WGK : Wassergefährdungsklasse (Water Hazard Class).
GHS02 : Flame
GHS07 : Exclamation mark
PBT: Persistent, bioaccumulable and toxic.
vPvB : Very persistent, very bioaccumulable.
SVHC : Substances of very high concern.
↳ Modification compared to the previous version