

DETECTEUR DE FUITES - 632080000**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product identifier**

Product name : DETECTEUR DE FUITES

Product code : 632080000

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

LEAK DETECTOR

As spray

1.3. Details of the supplier of the safety data sheet

Raison Sociale : A.M.P.E.R.E. SYSTEM .

Adresse : 3 rue Antoine Balard - Z.I. du Vert Galant.95310.Saint-

Ouen!Aumône

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

fds@amperesystem.com

1.4. Emergency telephone number : 0344 892 0111**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).

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

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

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.

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.

DETECTEUR DE FUITES**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 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

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

Identification	(EC) 1272/2008	Note	%
INDEX: 603-053-00-3 CAS: 107-41-5 EC: 203-489-0 REACH: 01-2119539582-35-XXXX	GHS07 Wng Eye Irrit. 2, H319 Skin Irrit. 2, H315	[1]	0 \leq x % < 2.5
2-METHYLPENTANE-2,4-DIOL CAS: 10024-97-2 EC: 233-032-0 REACH: 01-2119970538-25-XXXX	GHS03, GHS04 Dgr Ox. Gas 1, H270 Press. Gas, H280	[1] [7]	0 \leq x % < 2.5
OXYDE DE DIAZOTE CAS: 110-91-8 EC: 203-815-1 REACH: 01-2119496057-30-XXXX	GHS06, GHS05, GHS02 Dgr Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 3, H331	[1]	0 \leq x % < 2.5
MORPHOLINE CAS: 7632-00-0 EC: 231-555-9 REACH: 01-2116471836-27-XXXX	GHS06, GHS09, GHS03 Dgr Ox. Sol. 3, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 1		0 \leq x % < 2.5

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

Information on ingredients :

[7] Propellant gas

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

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 e recognised cleaner. If swallowed accidentally, call a doctor to assess the need for monitoring and subsequent treatment in hospital. Show him the label.

DETECTEUR DE FUITES**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

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.

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.

-

6.4. Reference to other sections

No data available.

DETECTEUR DE FUITES

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.

-

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 (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 :
110-91-8	36	10	72	20	-

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

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-41-5			25 ppm		
10024-97-2	50 ppm			A4	
110-91-8	20 ppm			Skin; A4	

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
10024-97-2		100 ppm 180 mg/m ³		2(I)
110-91-8		10 ppm 36 mg/m ³		2(I)

- France (INRS - ED984 :2016) :

DETECTEUR DE FUITES

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
107-41-5	-	-	25	125	-	84
110-91-8	10	36	20	72	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
107-41-5	25 ppm 123 mg/m ³	25 ppm 123 mg/m ³			
10024-97-2	100 ppm 183 mg/m ³	- ppm - mg/m ³			
110-91-8	10 ppm 36 mg/m ³	20 ppm 72 mg/m ³		Sk	

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/m³

Inhalation.
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 :

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 :

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
1.04 mg/kg body weight/day

Inhalation.
Long term local effects.
36 mg of substance/m³

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

Consumers.

Ingestion.
Long term systemic effects.
6.3 mg/kg body weight/day

Dermal contact.
Long term systemic effects.
0.52 mg/kg body weight/day

Inhalation.
Long term local effects.
3.2 mg of substance/m³

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

Inhalation.
Short term local effects.
18 mg of substance/m³

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

Final use:

Exposure method:
Potential health effects:

Workers.

Inhalation.
Short term local effects.

DETECTEUR DE FUITES

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.
PNEC :	0.00616 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.0054 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	0.0195 mg/kg
Environmental compartment:	Marine sediment.
PNEC :	0.0223 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	21 mg/l

MORPHOLINE (CAS: 110-91-8)

Environmental compartment:	Soil.
PNEC :	0.239 mg/kg
Environmental compartment:	Fresh water.
PNEC :	0.1 mg/l
Environmental compartment:	Sea water.
PNEC :	0.01 mg/l
Environmental compartment:	Intermittent waste water.
PNEC :	0.28 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	1.49 mg/kg
Environmental compartment:	Marine sediment.

DETECTEUR DE FUITES

PNEC :	0.149 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 10 mg/l
2-METHYLPENTANE-2,4-DIOL (CAS: 107-41-5)	
Environmental compartment: PNEC :	Soil. 0.11 mg/kg
Environmental compartment: PNEC :	Fresh water. 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 EN166.

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)
- 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.

DETECTEUR DE FUITES

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****General information :**

Physical state :	Fluid liquid.
spray	Spray.
booster	Spray : Pressure to 20°C : 6.0 bars Compressed gas colourless and weak odour. Exposed characteristics : -

Important health, safety and environmental information

pH :	Not relevant.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	> 1
Water solubility :	Soluble.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.
Chemical combustion heat :	< 20 kJ/g.

9.2. Other information

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 oxydizing 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 toxicological effects**

Splashes in the eyes may cause irritation and reversible damage

DETECTEUR DE FUITES

11.1.1. Substances**Acute toxicity :**

SODIUM NITRITE (CAS: 7632-00-0)

Oral route :

LD50 = 180 mg/kg

Species : Rat

MORPHOLINE (CAS: 110-91-8)

Oral route :

LD50 = 1910 mg/kg

Species : Rat

Dermal route :

LD50 = 500 mg/kg

Species : Rat

Inhalation route (Vapours) :

LC50 = 8 mg/l

Species : Rat

Duration of exposure : 4 h

11.1.2. Mixture

No toxicological data available for the mixture.

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.

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

- Probably harmful to aquatic organisms.

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 :

LC50 = 180 mg/l

Species : *Oncorhynchus mykiss*

Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 45 mg/l

Species : *Daphnia magna*

Duration of exposure : 48 h

OECD Guideline 202 (*Daphnia* sp. Acute Immobilisation Test)

Algae toxicity :

ECr50 = 28 mg/l

DETECTEUR DE FUITES

Species : Pseudokirchnerella subcapitata
Duration of exposure : 96 h

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 :

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

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, 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, preferably 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 2019 - IMDG 2018 - ICAO/IATA 2019).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, asphyxiant

DETECTEUR DE FUITES

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	2.2	-	203	75 kg	203	150 kg	A98 A145 A167 A802	E0
	2.2	2.2	-	Y203	30 kg G	-	-	A98 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. Transport in bulk according to Annex II of Marpol and the IBC Code

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. 2018/1480 (ATP 13)
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2019/521 (ATP 12)

- Container information:

No data available.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) :

WGK 1 : Slightly hazardous for water.

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.

DETECTEUR DE FUITES**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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

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).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.