

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

### 1 Identification of the hazardous chemical and of the supplier

- **Product identifier**
- **Trade name:** Nitrogen/Phosphorous Pesticide Standard (1X1 mL)
- **Part number:** NPM-525C-1
- **Recommended use of the chemical and restrictions on use**  
Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany
- **Further information obtainable from:**  
Telephone: 0800 603 1000  
pdl-msds\_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: +(60) 3-9212 5794

### 2 Hazard identification

- **Classification of the substance or mixture**



flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



environment

Aquatic Acute 1      H400 Very toxic to aquatic life.

Aquatic Chronic 1      H410 Very toxic to aquatic life with long lasting effects.



Eye Irrit. 2      H319 Causes serious eye irritation.

STOT SE 3      H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS09

- **Signal word** Danger

- **Hazard-determining components of labelling:**  
propanone

(Contd. on page 2)

MY

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Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 1)

**· Hazard statements**

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H410 Very toxic to aquatic life with long lasting effects.

**· Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking.
- P241 Use explosion-proof electrical/ ventilating/lighting equipment.
- P261 Avoid breathing vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 Ground/bond container and receiving equipment.
- P242 Use only non-sparking tools.
- P273 Avoid release to the environment.
- P243 Take precautionary measures against static discharge.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P391 Collect spillage.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray for extinction.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Other hazards**
**· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition and information of the ingredients of the hazardous chemical

**· Chemical characterisation: Mixtures**
**· Description:** Mixture of substances listed below with nonhazardous additions.

**· Dangerous components:**

|          |                                                                                                                                                     |         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 67-64-1  | propanone<br>⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336                                                                            | 99.496% |
| 62-73-7  | 2,2-dichlorovinyl dimethyl phosphate<br>⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sens. 1, H317 | 0.0126% |
| 834-12-8 | ametryn (ISO)<br>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332                                         | 0.0126% |

(Contd. on page 3)

MY

## Safety Data Sheet

### according to P.U.(A) 310/2013

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Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 2)

|            |                                                                                                                                                                                      |         |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1582-09-8  | trifluralin (ISO) (containing < 0,5 ppm NPDA)<br>⚠️ Carc. 2, H351; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Tox. 4, H302; Skin Sens. 1, H317                      | 0.0126% |
| 2212-67-1  | molinate (ISO)<br>⚠️ Carc. 2, H351; Repr. 2, H361; STOT RE 2, H373; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317 | 0.0126% |
| 2921-88-2  | O,O-diethyl O-3,5,6-trichloro-2-pyridylphosphorothioate<br>⚠️ Acute Tox. 3, H301; Acute Tox. 2, H310; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                              | 0.0126% |
| 7786-34-7  | 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate<br>⚠️ Acute Tox. 2, H300; Acute Tox. 1, H310; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410                                   | 0.0126% |
| 15972-60-8 | alachlor (ISO)<br>⚠️ Carc. 2, H351; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Tox. 4, H302; Skin Sens. 1, H317                                                     | 0.0126% |

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.

(Contd. on page 4)

MY

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 3)

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

· **Additional information about design of technical facilities:** No further data; see section 7.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 propanone**

|                |                                                   |
|----------------|---------------------------------------------------|
| PEL (Malaysia) | Long-term value: 1187 mg/m <sup>3</sup> , 500 ppm |
|----------------|---------------------------------------------------|

**62-73-7 2,2-dichlorovinyl dimethyl phosphate**

|                |                                                   |
|----------------|---------------------------------------------------|
| PEL (Malaysia) | Long-term value: 0.90 mg/m <sup>3</sup> , 0.1 ppm |
|                | (kulit)                                           |

**2921-88-2 O,O-diethyl O-3,5,6-trichloro-2-pyridylphosphorothioate**

|                |                                        |
|----------------|----------------------------------------|
| PEL (Malaysia) | Long-term value: 0.2 mg/m <sup>3</sup> |
|                | (kulit)                                |

**7786-34-7 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate**

|                |                                                    |
|----------------|----------------------------------------------------|
| PEL (Malaysia) | Long-term value: 0.09 mg/m <sup>3</sup> , 0.01 ppm |
|                | (kulit)                                            |

· **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 5)

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 4)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Do not inhale gases / fumes / aerosols.
  - Avoid contact with the eyes.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - When used as intended with Agilent instruments the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
  - Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device equipment with appropriate organic or acid gas cartridge.
- **Protection of hands:**
  - Although not recommended for constant contact with the chemicals or for clean up, nitrile gloves 11-13mil thickness are recommended for normal use. The breakthrough time is 1hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
- **Material of gloves**
  - For normal use: nitrile rubber, 11-13 mil thickness
  - For direct contact with the chemical: butyl rubber, 12-15 mil thickness
- **Penetration time of glove material**
  - For normal use: nitrile rubber: 1 hour
  - For direct contact with the chemical: butyl rubber: > 4 hours
- **Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Colourless      |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |
- **pH-value:** Not determined.
- **Change in condition**

|                                                |              |
|------------------------------------------------|--------------|
| <b>Melting point/freezing point</b>            | -94.7 °C     |
| <b>Initial boiling point and boiling range</b> | 55.8-56.6 °C |
- **Flash point:** -17 °C
- **Flammability (solid, gas)** Highly flammable.

(Contd. on page 6)

MY

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 5)

|                                                  |                                                                                             |
|--------------------------------------------------|---------------------------------------------------------------------------------------------|
| · <b>Auto-ignition temperature</b>               | 465 °C                                                                                      |
| · <b>Decomposition temperature:</b>              | Not determined.                                                                             |
| · <b>Auto-ignition temperature</b>               | Product is not selfigniting.                                                                |
| · <b>Explosive properties:</b>                   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| · <b>Explosion limits:</b>                       |                                                                                             |
| <b>Lower:</b>                                    | 2.6 Vol %                                                                                   |
| <b>Upper:</b>                                    | 13 Vol %                                                                                    |
| · <b>Vapour pressure at 20 °C:</b>               | 245.3 hPa                                                                                   |
| · <b>Density at 20 °C:</b>                       | 0.791 g/cm <sup>3</sup>                                                                     |
| · <b>Relative density</b>                        | Not determined.                                                                             |
| · <b>Vapour density</b>                          | Not determined.                                                                             |
| · <b>Evaporation rate</b>                        | Not determined.                                                                             |
| · <b>Solubility in / Miscibility with water:</b> | Not miscible or difficult to mix.                                                           |
| · <b>Partition coefficient: n-octanol/water</b>  | Not determined.                                                                             |
| · <b>Viscosity:</b>                              |                                                                                             |
| <b>Dynamic at 20 °C:</b>                         | 32 mPas                                                                                     |
| <b>Kinematic:</b>                                | Not determined.                                                                             |
| · <b>Solvent content:</b>                        |                                                                                             |
| <b>Organic solvents:</b>                         | 99.6 %                                                                                      |
| <b>VOC (EC)</b>                                  | 99.56 %                                                                                     |
| <b>Solids content:</b>                           | 0.3 %                                                                                       |
| · <b>Other information</b>                       | No further relevant information available.                                                  |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

MY

(Contd. on page 7)

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 6)

### 11 Toxicological information

· **Information on toxicological effects**

· **Acute toxicity**

· **LD/LC50 values relevant for classification:**

#### 67-64-1 propanone

|        |      |                       |
|--------|------|-----------------------|
| Oral   | LD50 | 5,800 mg/kg (rat)     |
| Dermal | LD50 | 20,000 mg/kg (rabbit) |

#### 62-73-7 2,2-dichlorovinyl dimethyl phosphate

|            |          |                                       |
|------------|----------|---------------------------------------|
| Oral       | LD50     | 25 mg/kg (rat)                        |
| Dermal     | LD50     | 107 mg/kg (rat)<br>107 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 15 mg/L (rat)                         |

#### 834-12-8 ametryn (ISO)

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 1,626 mg/kg (rat)    |
| Dermal     | LD50     | 8,160 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >2.22 mg/L (rat)     |

#### 1582-09-8 trifluralin (ISO) (containing < 0,5 ppm NPDA)

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | 1,930 mg/kg (rat)  |
| Dermal | LD50 | >5,000 mg/kg (rat) |

#### 2212-67-1 molinate (ISO)

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 369 mg/kg (rat)      |
| Dermal | LD50 | 3,536 mg/kg (rabbit) |

#### 2921-88-2 O,O-diethyl O-3,5,6-trichloro-2-pyridylphosphorothioate

|            |          |                                      |
|------------|----------|--------------------------------------|
| Oral       | LD50     | 60 mg/kg (mouse)<br>135 mg/kg (rat)  |
| Dermal     | LD50     | 120 mg/kg (mouse)<br>202 mg/kg (rat) |
| Inhalative | LC50/4 h | >200 mg/L (rat)                      |

#### 7786-34-7 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate

|        |      |               |
|--------|------|---------------|
| Oral   | LD50 | 3 mg/kg (rat) |
| Dermal | LD50 | 4 mg/kg (rat) |

#### 15972-60-8 alachlor (ISO)

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 930 mg/kg (rat)      |
| Dermal | LD50 | 3,500 mg/kg (rabbit) |

· **Primary irritant effect:**

· **Skin corrosion or irritation** No irritant effect.

· **Serious eye damage or eye irritation** Irritating effect.

· **Respiratory / skin sensitization** No sensitising effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 8)

MY

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

Irritant

(Contd. of page 7)

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal information

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transportation information

- |                                                                                        |                                                                                                               |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| · <b>Not Regulated, De minimus Quantities</b>                                          | -                                                                                                             |
| · <b>UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                         | UN1090                                                                                                        |
| · <b>UN proper shipping name</b><br>· <b>ADR</b><br><br>· <b>IMDG</b><br>· <b>IATA</b> | 1090 ACETONE solution, ENVIRONMENTALLY<br>HAZARDOUS<br>ACETONE solution, MARINE POLLUTANT<br>ACETONE solution |

(Contd. on page 9)

MY

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 8)

· **Transport hazard class(es)**

· **ADR, IMDG**

· **Class**

3 Flammable liquids.

· **Label**

3

· **IATA**

· **Class**

3 Flammable liquids.

· **Label**

3

· **Packing group**

· **ADR, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances:  
ametryn (ISO), chlorpyrifos (ISO)

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):**

33

· **EMS Number:**

F-E,S-D

· **Stowage Category**

B

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **Transport category**

2

· **Tunnel restriction code**

D/E

· **IMDG**

· **Limited quantities (LQ)**

1L

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN 1090 ACETONE SOLUTION, 3, II,  
ENVIRONMENTALLY HAZARDOUS

MY

(Contd. on page 10)

## Safety Data Sheet

according to P.U.(A) 310/2013

Printing date 23.03.2025

Revision: 23.03.2025

**Trade name: Nitrogen/Phosphorous Pesticide Standard (1X1 mL)**

(Contd. of page 9)

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **EHS reference list**

|            |                                                         |
|------------|---------------------------------------------------------|
| 67-64-1    | propanone                                               |
| 62-73-7    | 2,2-dichlorovinyl dimethyl phosphate                    |
| 834-12-8   | ametryn (ISO)                                           |
| 1582-09-8  | trifluralin (ISO) (containing < 0,5 ppm NPDA)           |
| 2212-67-1  | molinate (ISO)                                          |
| 2921-88-2  | O,O-diethyl O-3,5,6-trichloro-2-pyridylphosphorothioate |
| 7786-34-7  | 2-methoxycarbonyl-1-methylvinyl dimethyl phosphate      |
| 15972-60-8 | alachlor (ISO)                                          |

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· **Department issuing SDS:** Document Control / Regulatory

· **Contact:** pdl-acg-regulatory-cq@agilent.com

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity - oral – Category 3

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 1: Acute toxicity - oral – Category 1

Acute Tox. 2: Acute toxicity - oral – Category 2

Eye Irrit. 2: Serious eye damage or eye irritation – Category 2

Skin Sens. 1: Skin sensitization – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - chronic hazard – Category 1