

# SAFETY DATA SHEET

accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

**Product:** MIXLAND+® ZDTP 50 BA/GA Page: 1 / 8

Date 13.07.2021 (Cancel and replace: 13.09.2019) SDS No.: 100080-100 (Version 4.0)

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

### 1.1. Product identifier

Identification of the mixture: MIXLAND+® ZDTP 50 BA/GA

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

Use of the Substance/Mixture: Curing chemical

# 1.3. Details of the supplier of the safety data sheet

Supplier MLPC International

209, Avenue Charles Despiau

F-40370 RION-DES-LANDES, FRANCE Telephone: + 33 (0) 5 58 57 02 00 E-mail address: http://www.mlpc-intl.com

fds@mlpc-intl.com

#### 1.4. Emergency telephone number

+1-703-741-5970 CHEMTREC international emergency phone number (ARKEMA CCN830055)

### **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008):

Skin irritation, 2, H315 Eye irritation, 2, H319

Chronic aquatic toxicity, 2, H411

# Additional information:

For the full text of the H, EUH-phrases mentioned in this Section, see Section 16.

## 2.2. Label elements

## Label elements (REGULATION (EC) No 1272/2008):

Hazardous components which must be listed on the label:

Hazard pictograms:





Signal word: Warning

## Hazard statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

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### Precautionary statements:

#### Prevention:

P264: Wash skin thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves or eye protection or face protection.

#### Response:

P302 + P352 : IF ON SKIN: Wash with plenty of water.

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

Continue rinsing.

P332 + P313 : If skin irritation occurs: Get medical advice/ attention.

P337 + P313 : If eye irritation persists: Get medical advice/ attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

#### Disposal:

P501: Dispose of contents or container to an approved waste disposal plant.

### 2.3. Other hazards: None.

### Other:

## Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.2. Mixtures

#### Chemical nature of the mixture1:

Mixture based on: Polymer and

# Hazardous components (accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)):

| Chemical name <sup>1</sup> & REACH Registration Number <sup>2</sup>   | EC-No.        | CAS-No.         | Concentration      | Classification<br>REGULATION (EC) No<br>1272/2008                 | specific concentration<br>limit, M-Factors, Acute<br>toxicity estimate |
|---|---------------|-----------------|--------------------|---|--|
| Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (01-2119521201-61) | 288-917-<br>4 | 85940-<br>28-9  | Approximately 50 % | Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>Aquatic Chronic2; H411 |  |
| Amorphous silica  | -             | 112926-<br>00-8 | Approximately 25 % | WEL substance   |  |
| Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)              | 265-158-<br>7 | 64742-<br>55-8  | <= 0,5 %           | Asp. Tox.1; H304<br>Nota L: DMSO <3%                              |  |

<sup>1:</sup> See chapter 14 for Proper Shipping Name

# **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of necessary first-aid measures:

## General advice:

Take off immediately all contaminated clothing.

### Inhalation:

Move to fresh air. Consult a physician.

### Skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

# Eye contact:

Wash well-open eyes immediately, abundantly and thoroughly with water. Consult an ophthalmologist.

### Ingestion:

Call a physician immediately. Do not induce vomiting without medical advice. Rinse mouth.

# Protection of first-aiders:

If entering a saturated atmosphere, wear a self contained breathing apparatus.

## 4.2. Most important symptoms and effects, both acute and delayed: No data available.

<sup>&</sup>lt;sup>2</sup>:See the text of the regulation for applicable exceptions or provisions -

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### 4.3. Indication of any immediate medical attention and special treatment needed: No data available.

#### **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

Suitable extinguishing media: Water spray, Foam, Dry powder

Unsuitable extinguishing media: All other extinguishants

#### 5.2. Special hazards arising from the substance or mixture:

Thermal decomposition gives:, Nitrogen oxides (NOx), Sulphur oxides, Carbon oxides

#### 5.3. Advice for firefighters:

#### Specific methods:

Suppress gases, fumes and/or dust with water spray jet. Remove all sources of ignition.

### Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1. Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin and eyes and inhalation of dust.

#### 6.2. Environmental precautions:

Do not let product enter drains. Do not contaminate surface water.

## 6.3. Methods and materials for containment and cleaning up:

#### Recovery:

Shovel or sweep up. Recover the product and place in a dry labelled container.

#### Elimination:

Dispose of as hazardous waste in compliance with local and national regulations.

# 6.4. Reference to other sections: None.

# **SECTION 7: HANDLING AND STORAGE**

# 7.1. Precautions for safe handling:

## **Technical measures/Precautions:**

Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. In the presence of an ignition source: Dust may form explosive mixture in air.

# Safe handling advice:

In case of dust formation, wear a dust mask. Avoid static electricity build up with connection to earth.

### Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2. Conditions for safe storage, including any incompatibilities:

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

### Incompatible products:

Strong acids Oxidizing agents

### Packaging material:

Recommended: Cardboard lined with polyethylene liner, Paper bags lined with polyethylene

# 7.3. Specific end use(s): None.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1. Control parameters:

Exposure Limit Values Not relevant

Derived No Effect Level (DNEL): No data available.

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Predicted No Effect Concentration: No data available.

8.2. Exposure controls:

Product:

General protective measures: Ensure sufficient air exchange and/or exhaust in work areas

Personal protective equipment:

Respiratory protection: Effective dust mask Hand protection: Impervious gloves

Eye/face protection: Tightly fitting safety goggles

Skin and body protection: Protective suit

Environmental exposure controls: See chapter 6

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# 9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C): solid

Form: roll, or, pellets
Colour: light grey

Odour: Characteristic and slight
Odour Threshold: No data available.

Melting point/range: No data available.

Boiling point/boiling range: No data available.

Flammability:

Flammability (solid, gas): The product is not flammable.

Flash point: Active ingredient > 150 °C

Auto-ignition temperature:

Decomposition temperature:

PH:

No data available.

No data available.

No data available.

No data available.

Viscosity:

No data available.

No data available.

Partition coefficient: n-octanol/water: PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR)

ESTERS, ZINC SALTS:

log Kow: 8,87 (QSAR)

Vapour pressure:No data available.Density:1,61 g/cm3 , at 20 °CVapour density:No data available.

# 9.2. Other information:

**Explosive properties:** 

Explosivity: Active substance, Not explosive

## **SECTION 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity: No data available.

### 10.2. Chemical stability:

The product is stable under normal handling and storage conditions.

# **10.3.** Possibility of hazardous reactions: No data available.

# 10.4. Conditions to avoid:

Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

# 10.5. Incompatible materials to avoid:

Strong acids and strong bases

## 10.6. Hazardous decomposition products:

Nitrogen oxides (NOx), Carbon dioxide (CO2), Sulphur oxides

# **SECTION 11: TOXICOLOGICAL INFORMATION**

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All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

#### **Acute toxicity:**

Inhalation: Based on the available information, it is not possible to conclude on the hasard potential of this

mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

• In animals : No mortality/4 h/Rat: 2,3 mg/l (Method: OECD Test Guideline 403) (vapour)

((Results obtained on a similar product).)

Ingestion: Based on the available information, it is not possible to conclude on the hasard potential of this

mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

· In animals : LD50/Rat: 3.080 mg/kg (Method: OECD Test Guideline 401)

Dermal: Based on the available information, it is not possible to conclude on the hasard potential of this

mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

 In animals : No mortality/Rabbit: 20.000 mg/kg (Method: OECD Test Guideline 402)

#### Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact: According to its composition: Causes skin irritation.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

Skin irritation (OECD Test Guideline 404, Rabbit) In animals :

Eve contact: According to its composition: Causes serious eye irritation.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

 In animals : Eye irritation (OECD Test Guideline 405, Rabbit)

#### Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: Based on the available information, it is not possible to conclude on the hasard potential of this

PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

No skin allergy was observed. (Method: OECD Test Guideline 406 Buehler Test, Guinea pig) In animals :

### **CMR effects:**

Mutagenicity: Based on the available information, it is not possible to conclude on the hasard potential of this

mixture.

In vitro

PHOSPHORODITHIOIC ACID, MIXED 0,0-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

((Results obtained on a similar product).)

Ames test in vitro: Inactive (Method: OECD Test Guideline 471)

In vitro gene mutations test on mammalian cells: Some positive tests (Method: OECD Test Guideline

476)

In vivo

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

Carcinogenicity: No data available.

Reproductive toxicity:

Fertility: Based on the available information, it is not possible to conclude on the hasard potential of this

mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

Reproductive/Developmental Effects Screening Assay: Effect on reproduction capacity, Effects on F1 · In animals:

offspring.

NOAEL ( Parental toxicity ): 30 mg/kg bw/day NOAEL ( Fertility ): 30 mg/kg bw/day

NOAEL ( Developmental Toxicity ): 30 mg/kg bw/day

(Method: OECD Test Guideline 421, By oral route) ((Results obtained on a similar product).)

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Specific target organ toxicity:

No data available. Single exposure:

Repeated exposure: Based on the available information, it is not possible to conclude on the hasard potential of this

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

By oral route: Local irritation of the stomach

NOAEL= 125 mg/kg (Method: OECD Test Guideline 407, Rat, 28 d) ((Results obtained on a similar

product).)

**Aspiration hazard:** 

Not applicable

11.2. Information on other hazards: Not relevant

**Endocrine disrupting properties:** None known. Other information: Not relevant

#### **SECTION 12: ECOLOGICAL INFORMATION**

All available and relevant data on this product and/or the components quoted in section 3 and/or the Ecotoxicology Assessment:

analogue substances/metabolites have been taken into account for the hazard assessment.

Acute aquatic toxicity: Toxic to aquatic life.

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

### 12.1. Toxicity:

Fish: From its composition, it must be considered as: Toxic to fish.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

May be considered as comparable to a similar product for which experimental results are: LL50, 96 h (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l (Method: OECD Test Guideline 203)

Aquatic invertebrates: From its composition, it must be considered as: Toxic to daphnia.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

EL50, 48 h (Daphnia magna (Water flea)): 5,7 mg/l (Method: OECD Test Guideline 202)

Aquatic plants: From its composition, it must be considered as: Toxic to algae.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

May be considered as comparable to a similar product for which experimental results are: ErL50, 72 h (Selenastrum capricornutum (green algae)): 2,1 mg/l (Method: OECD Test Guideline

Microorganisms:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

EC50, 3 h (Activated sludge): > 10.000 mg/l (Method: OECD Test Guideline 209, Respiration

inhibition)

# Aquatic toxicity / Long term toxicity:

## Aquatic invertebrates:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS

May be considered as comparable to a similar product for which experimental results are: NOÉC, 21 d (Daphnia magna (Water flea)): 0,262 mg/l (Method: OECD Test Guideline 211)

## Aquatic plants:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

NOEC r, 72 h (Selenastrum capricornutum): 1 mg/l (Method: OECD Test Guideline 201)

# 12.2. Persistence and degradability:

Biodegradation (In water): Based on the available information, it is not possible to conclude on biodegradability of this

mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

May be considered as comparable to a similar product for which experimental results are: Not readily biodegradable.: 1,5 % after 28 d (Method: OECD Test Guideline 301 B)

### 12.3. Bioaccumulative potential:

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Bioaccumulation: Based on the available information, it is not possible to conclude on the bioaccumulation

potential of this mixture.

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

Partition coefficient: n-octanol/water: log Kow: 8,87 (Method: QSAR)

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

May be considered as comparable to a similar product for which experimental results are:

Bioconcentration factor (BCF): < 100 (6 Weeks, Cyprinus carpio (Carp)

# 12.4. Mobility in soil - Distribution among environmental compartments:

## Absorption / desorption:

PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS:

log Koc: 5 ( Method: calculated )

## 12.5. Results of PBT and vPvB assessment :

Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

12.6. Endocrine disrupting properties: None known.

12.7. Other adverse effects: None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods:

Disposal of product: Destroy the product by incineration (in accordance with local and national regulations).

Disposal of packaging: Destroy packaging by incineration at an approved waste disposal site (in accordance with local and

national regulations).

## **SECTION 14: TRANSPORT INFORMATION**

| Regulation     | 14.1. UN<br>number | 14.2.UN proper shipping name   | 14.3.Clas<br>s* | Label | 14.4.<br>PG* | 14.5. Environmental hazards | 14.6. Special precautions for user |
|----------------|--------------------|--|-----------------|-------|--------------|-----------------------------|------------------------------------|
| ADR            | 3077               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL AND ISOPROPYL) ESTERS, ZINC SALTS)      | 9               | 9     | III          | yes                         |                                    |
| ADN            | 3077               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL AND ISOPROPYL) ESTERS, ZINC SALTS)      | 0               | 9     | III          | yes                         |                                    |
| RID            | 3077               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL AND ISOPROPYL) ESTERS, ZINC SALTS)      | 9               | 9     | III          | yes                         |                                    |
| IATA Cargo     | 3077               | Environmentally hazardous substance, solid, n.o.s.<br>(mixture,contains,phosphorodithioic acid,mixed<br>o,o-bis(2-ethylhexyl and isobutyl and isopropyl)<br>esters,zinc salts) | 9               | 9MI   | Ш            | yes                         |                                    |
| IATA Passenger | 3077               | Environmentally hazardous substance, solid, n.o.s. (mixture,contains,phosphorodithioic acid,mixed o,o-bis(2-ethylhexyl and isobutyl and isopropyl) esters,zinc salts)          | 9               | 9MI   | III          | yes                         |                                    |
| IMDG           | 3077               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (MIXTURE, CONTAINS, PHOSPHORODITHIOIC ACID, MIXED O,O-BIS(2-ETHYLHEXYL AND ISOBUTYL AND ISOPROPYL) ESTERS, ZINC SALTS)      | 9               | 9     | III          | Marine pollutant            | EmS Number: F-A, S-F<br>Mark: MP   |

\*Description: 14.3. Transport hazard class(es)

14.4. Packing group

# 14.7. Maritime transport in bulk according to IMO instruments: Not applicable

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### **SECTION 15: REGULATORY INFORMATION**

Safety data sheets: accordance with Annex II of Regulation (EC) No 1907/2006 and its amendment(s)

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

# 15.2. Chemical safety assessment: None.

**INVENTORIES:** 

EINECS: Conforms to TSCA: Conforms to

DSL: This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

IECSC (CN): Conforms to ENCS (JP): Does not conform ISHL (JP): Does not conform KECI (KR): Conforms to PICCS (PH): Conforms to AICS: Conforms to NZIOC: Conforms to

TSCA 12B:

# **SECTION 16: OTHER INFORMATION**

#### Full text of H, EUH-phrases referred to under sections 2 and 3

H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. Causes serious eye irritation. H319 H411

Toxic to aquatic life with long lasting effects.

### Update:

| Safety | Type:   |           |
|--------|---|-----------|
| 1      | SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE | Revisions |
|        | COMPANY/UNDERTAKING, Emergency telephone number               |           |
| 2      | SECTION 2: HAZARDS IDENTIFICATION                             | Revisions |
| 3      | SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS             | Revisions |
| 8      | SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION              | Revisions |
| 11     | SECTION 11: TOXICOLOGICAL INFORMATION                         | Revisions |
| 12     | SECTION 12: ECOLOGICAL INFORMATION                            | Revisions |
| 15     | SECTION 15: REGULATORY INFORMATION                            | Revisions |

## Thesaurus:

NOAEL: No Observed Adverse Effect Level (NOAEL) LOAEL: Lowest Observed Adverse Effect Level (LOAEL)

bw : Body weight food: oral feed dw: Dry weight

vPvB: very Persistent and very Bioaccumulative PBT: Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).