

SAFETY DATA SHEET

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

Product: MIXLAND+® ZDBC 75GA F140 Page: 1/9

SDS No.: 100149-100 (Version 1.0) Date 12.07.2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the product

Identification of the mixture: MIXLAND+® ZDBC 75GA F140

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

Use of the Substance/Mixture : Cross-linking accelerator

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

+44 (0) 1235 239 670 (Carechem24 – MLPC 29003) Europe 001866 928 0789 (Carechem24 – MLPC 29003) Americas

+65 3158 1074 (Carechem24 – MLPC 29003) Asia-pacific region (excluding China)

+86 400 6267911 China mainland

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
Skin sensitisation, 1, H317
Specific target organ toxicity - single exposure, 3, Respiratory system, H335

Acute aquatic toxicity, 1, H400 Chronic aquatic toxicity, 1, H410

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:

zinc bis(dibutyldithiocarbamate)

Hazard pictograms:





Signal word:

Warning

Hazard statements:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

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Precautionary statements:

Prevention:

Product:

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273: Avoid release to the environment.

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

Response:

P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 : If eye irritation persists: Get medical advice/ attention. P362: Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.

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.

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 ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008
Zinc bis(dibutyldithiocarbamate) (01-2119956966-16) (N° ANNEX: 006-081-00-9)	205-232-8	136-23-2	Approximately 75 %	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 1 M-Factor Chronic = 10
Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	Approximately 12 %	Asp. Tox. 1; H304 Nota L: DMSO <3%
Stearic acid	200-313-4	57-11-4	2 %	WEL substance

^{1:} See chapter 14 for Proper Shipping Name

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.

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.

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/effects, acute and delayed: No data available.

²:See the text of the regulation for applicable exceptions or provisions: The transition time according to REACH Regulation, Article 23, is still not expired.

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4.3. Indication of immediate medical attention and special treatment needed, if necessary: No data available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Product:

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.

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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure Limit Values Not relevant

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Derived No Effect Level (DNEL): ZINC BIS(DIBUTYLDITHIOCARBAMATE):

End Use	Inhalation	Ingestion	Skin contact		
Workers	6 mg/m3 (LT, SE)		800 mg/kg (LT, SE)		
Consumers	2 mg/m3 (LT, SE)	1 mg/kg (LT, SE)	480 mg/kg (LT, SE)		

LE: Local effects, SE: Systemic effects, LT: Long term, ST: Short term

Predicted No Effect Concentration: ZINC BIS(DIBUTYLDITHIOCARBAMATE):

Compartment:	Value:
Water (Intermittent release)	0,0074 mg/l
Effects on waste water treatment plants	0,00365 mg/l
Fresh water sediment	11,5 mg/kg
Marine sediment	1,15 mg/kg
Soil	2,3 mg/kg
Oral (Secondary Poisoning)	4,56 mg/kg food

8.2. Exposure controls:

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:

Physical state (20°C): solid Form: pellets Colour: white

Odour: No data available. Olfactory threshold: No data available. pH: No data available

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

Melting point/range: 103 - 110 °C Boiling point/boiling range: No data available. Flash point: Not relevant No data available. **Evaporation rate:** Flammability (solid, gas): No data available. Vapour pressure: No data available. Vapour density: No data available. Relative density: No data available. Water solubility: No data available.

Partition coefficient: n-octanol/water: ZINC BIS(DIBUTYLDITHIOCARBAMATE):

log Kow: 7,04 (calculated)

Auto-ignition temperature: No data available. **Decomposition temperature:** No data available. Viscosity: No data available. **Explosive properties:** No data available. No data available. Oxidizing properties:

9.2. Other data: None.

10. STABILITY AND REACTIVITY

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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

Nitrosamine

11. TOXICOLOGICAL INFORMATION

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 toxicological effects:

Acute toxicity:

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

product.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

No mortality/4 h/Rat: 5,53 mg/l (Method: OECD Test Guideline 403) (Aerosol) · In animals:

According to its composition, can be considered as: Slightly or not harmful by ingestion Ingestion:

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

No mortality/Rat: 5.000 mg/kg (Method: OECD Test Guideline 401) In animals

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

· In animals: No mortality/Rat: 5 g/kg (Method: OECD Test Guideline 401)

Dermal: According to its composition, can be considered as: Slightly or not harmful in contact with

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

No mortality/Rabbit: 2.000 mg/kg (Method: OECD Test Guideline 402)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

No mortality/Rabbit: 5 g/kg (Method: OECD Test Guideline 402) In animals :

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

Skin contact: According to its composition, can be considered as: Irritating to skin.

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

 In animals: Mild skin irritation (Draize Test, Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

· In animals: Slightly irritating to skin. (Rabbit, Exposure time: 24 h)

Eye contact: According to its composition, can be considered as: Irritating to eyes.

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

· In animals: Mild eye irritation (Draize Test, Rabbit)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

No eye irritation (OECD Test Guideline 405, Rabbit) · In animals:

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: According to its structure, must be considered as: May cause an allergic skin reaction.

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

Strong sensitizing effects by skin contact. (Method: OECD Test Guideline 406 Guinea pig maximization · In animals:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC

• In animals : Not a skin sensitizer (Method: OECD Test Guideline 406 Guinea pig maximization test)

CMR effects:

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

mixture

In vitro

Product:

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

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

In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)
In vitro chromosomal abnormality test on human lymphocytes: Some negative tests, Some positive

tests (Method: OECD Test Guideline 473)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

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

In vitro test for chromosomal abnormalities on CHO cells: Inactive (Method: OECD Test Guideline 473)

In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

In vivo

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

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

DNA repair test on rats hepatocytes: Inactive

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

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

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

mixture.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

• In animals : Absence of carcinogenic effects (Method: OECD Test Guideline 451, mice, Chronic, dermal route)

Reproductive toxicity:

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

mixture.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

• In animals : Reproductive/Developmental Effects Screening Assay: No toxicity to reproduction

NOAEL (Parental toxicity): 1 g/kg

NOAEL (Fertility): 1 g/kg

(Method: OECD Test Guideline 421, Rat, By oral route)

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

mixture.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

• In animals : Absence of toxic effects for foetal development.

NOAEL (Developmental Toxicity): 2 g/kg NOAEL (Maternal Toxicity): < 0,125 g/kg

(Method: OECD Test Guideline 414, Rat, dermal route)

Specific target organ toxicity:

Single exposure : No data available.

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

mixture.

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

• In animals : By diet: No specific toxic effects

NOAEL= 41 mg/kg (Rat, 48 Days)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

• In animals : By inhalation: No effect is reported.

NOAEL= > 1 mg/l (Rat, 4 Weeks) (Aerosol)

dermal route: No effect is reported. NOAEL= > 2g/kg bw/d (Method: OECD Test Guideline 411, Rat, 3 months)

By oral route: (Results obtained on a similar product).

Target organs: Reproductive organs, Stomach, Liver, Thymus, NOAEL= < 125 mg/kg (Method: OECD

Test Guideline 408, Rat, 3 months)

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Aspiration hazard:

Not applicable

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: Very toxic to aquatic life.

Chronic aquatic toxicity: Very toxic to aquatic life with long lasting effects.

12.1. Acute toxicity:

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

this mixture.

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

LC50, 96 h (Poecilia reticulata) (Method: OECD Test Guideline 203) No effect up to the limit of

solubility

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

LL50, 96 h (Pimephales promelas (fathead minnow)) : > 100 mg/l (Method: OECD Test Guideline 203)

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

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

EC50, 48 h (Daphnia magna (Water flea)): 0,74 mg/l (Method: US EPA, Immobilization)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

LL50, 48 h (Daphnia magna (Water flea)): > 10.000 mg/l (Method: OECD Test Guideline 202, pH: 7,7,

Immobilization)

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

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

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

ZINC, BIS(DIETHYLCARBAMODITHIOATO-S-S'):

EC50, 96 h (Chlorella vulgaris (Fresh water algae)): 1,1 mg/l (Method: OECD Test Guideline 201,

growth rate inhibition)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

LL50, 72 h (Pseudokirchneriella subcapitata (green algae)) : > 100 mg/l (Method: OECD Test

Guideline 201, growth rate inhibition)

Microorganisms:

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

EC50, 3 h: 1.428 mg/l (Method: OECD Test Guideline 209)

EC10: 166 mg/l (Method: OECD Test Guideline 209)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

NOEC, 4 d (Photobacterium phosphoreum) : > 1,93 mg/l (Method: DIN 38412)

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates:

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

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

ZINC, BIS(DIETHYLCARBAMODITHIOATO-S-S')

NOEC, 21 d (Daphnia magna (Water flea)): 0,039 mg/l (Method: OECD Test Guideline 211,

Reproduction inhibition)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

NOEC, 21 d (Daphnia magna (Water flea)): 10 mg/l (Method: OECD Test Guideline 211, Growth

inhibition/Reproduction inhibition)

Aquatic plants:

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

NOEC r, 72 h (Pseudokirchneriella subcapitata (green algae)): 100 mg/l (Method: OECD Test

Guideline 201, growth rate inhibition)

12.2. Persistence and degradability:

Biodegradation (In water): From its composition, it must be considered as: Not readily biodegradable.

ZINC BIS(DIBUTYLDITHIOCARBAMATE):

Not readily biodegradable.: 2 % after 28 d (Method: OECD Test Guideline 301 F)

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DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC:

Not readily biodegradable.: 4 % after 28 d (Method: OECD Test Guideline 301 B)

12.3. Bioaccumulative potential:

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

potential of this mixture.

ZINC BIS(DIBUTYLDITHIOCARBAMATE)

Partition coefficient: n-octanol/water: log Kow: 7,04 (Method: calculated)

12.4. Mobility in soil - Distribution among environmental compartments: No data available.

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. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

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).

14. TRANSPORT INFORMATION

Regulation	14.1. UN number	14.2.UN proper shipping name	14.3.Clas s*	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC DIBUTYLDITHIOCARBAMATE)	9	9	ш	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC DIBUTYLDITHIOCARBAMATE)	9	9	Ш	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC DIBUTYLDITHIOCARBAMATE)	9	9	Ш	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (Zinc dibutyldithiocarbamate)	9	9МІ	Ш	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s (Zinc dibutyldithiocarbamate)	9	9MI	Ш	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	9	9	Ш	Marine pollutant	EmS Number: F-A, S-F Mark: MP

^{*}Description: 14.3. Transport hazard class(es)

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

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:

Listed in:

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil -- unspecified

EU. REACH, Annex XVII, Appendix 2, Entry 28 - Carcinogens: Category 1B (Table 3). (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil -- unspecified

15.2. Chemical safety assessment: None.

^{14.4.} Packing group

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INVENTORIES:

EINECS: Conforms to TSCA: Conforms to

DSL: All components of this product are on the Canadian DSL

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

TSCA 12B:

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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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).