

**Product:** **Ekaland DTDM C**

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SDS No.: 100019-100 (Version 3.3 )

Date 24.02.2016 (*Cancel and replace* : 19.09.2014)

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

**1.1. Identification of the product**

**Identification of the mixture:** Ekaland DTDM C

**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  
Tel. + 33 (0) 5 58 57 02 00  
<http://www.mlpc-intl.com>  
[fds@mlpc-intl.com](mailto: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 sensitisation, 1, H317  
Specific target organ toxicity - single exposure, 3, H335  
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:**

Di(morpholin-4-yl) disulphide

Hazard pictograms:



Signal word:

**Warning**

Hazard statements:

H317 : May cause an allergic skin reaction.  
H335 : May cause respiratory irritation.  
H411 : Toxic to aquatic life with long lasting effects.

Precautionary statements:

**Prevention:**

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P280 : Wear eye protection/ face protection.  
P273 : Avoid release to the environment.

**Response:**

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

**Storage:**

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

**Disposal:**

P501 : Dispose of contents/ container to an approved incineration 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 the hasard potential of this mixture.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

**Chemical nature of the mixture<sup>1</sup>:**

Mixture

**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 REGULATION (EC) No 1272/2008
Di(morpholin-4-yl) disulphide (01-2119541817-32)	203-103-0	103-34-4	>= 98,5 %	Skin Sens. 1; H317 Aquatic Chronic 2; H411 STOT SE 3 (Inhalation); H335

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

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

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

**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. In case of problems : Consult a doctor  
Oxygen or artificial respiration if needed.

**Skin contact:**

Wash immediately, abundantly and thoroughly with water.

**Eye contact:**

Wash well-open eyes immediately and abundantly with water for at least 15 minutes If irritation persists, consult an ophthalmologist.

**Ingestion:**

In case of problems : Consult a doctor.

**Protection of first-aiders:**

In case of insufficient ventilation, wear suitable respiratory equipment.

**4.2. Most important symptoms/effects, acute and delayed:** No data available.

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

**5. FIREFIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable extinguishing media:** Water spray, Foam, Dry powder

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

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

**5.3. Advice for firefighters:**

**Specific methods:**

Suppress gases, fumes and/or dust with water spray jet. Remove all sources of ignition. Do not allow run-off from fire fighting to enter drains or water courses.

**Special protective actions for fire-fighters:**

Wear a self contained breathing apparatus.

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**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:**

**Methods for cleaning up:**

Sweep up and shovel. Pick up and transfer to properly labelled containers.

**Elimination:**

Dispose of in accordance with local regulations.

**6.4. Reference to other sections: None.**

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**7. HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

**Technical measures/Precautions:**

Storage and handling precautions applicable to products: Dust forming.

**Safe handling advice:**

Avoid the formation and deposition of dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Provide showers, eye-baths. Wear a dust mask and safety glasses/goggles if necessary.

**Hygiene measures:**

Follow general hygiene guidelines. Prohibit contact with skin and eyes and inhalation of vapours. 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.

**Incompatible products:**

Strong acids, Oxidizing agents

**Packaging material:**

**Recommended:** Paper bags, Paper bags lined with polyethylene, Big bags.

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

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Exposure Limit Values** Not relevant

**Derived No Effect Level (DNEL):** DI(MORPHOLIN-4-YL) DISULPHIDE :

End Use	Inhalation	Ingestion	Skin contact
Workers	0,17 mg/m <sup>3</sup> (LT, SE) 0,02 mg/m <sup>3</sup> (LT, LE)		0,024 mg/kg (LT, SE)
Consumers	0,03 mg/m <sup>3</sup> (LT, SE) 0,004 mg/m <sup>3</sup> (LT, LE)	0,012 mg/kg (LT, SE)	0,012 mg/kg (LT, SE)

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

**Predicted No Effect Concentration:** DI(MORPHOLIN-4-YL) DISULPHIDE :

Compartment:	Value:
Fresh water	0,0037 mg/l
Marine water	0,00037 mg/l
Water (Intermittent release)	0,037 mg/l
Sewage treatment plant	7,59 mg/l
Sediment	0,029 mg/kg
Marine sediment	0,0029 mg/kg
Soil	0,0036 mg/kg

## 8.2. Exposure controls:

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

**Personal protective equipment:**

Respiratory protection: Effective dust mask  
Hand protection: Gloves  
Eye/face protection: Safety glasses  
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:** powder  
**Colour:** white  
**Granulometry:** D50 : 0,042 mm  
D10 : 0,013 mm  
D90 : 0,077 mm

**Odour:** Characteristic and slight

**Olfactory threshold:** No data available.

**pH:** Not applicable

**Melting point/range :** 125 °C (OECD Test Guideline 102)

**Boiling point/boiling range:** No data available.

**Flash point:** Not applicable

**Evaporation rate:** No data available.

**Flammability (solid, gas):**

Flammability: Non flammable product (Standard A10)  
Lower flammable limit : No data available  
Upper flammable limit :

**Vapour pressure:** < 0,004 Pa , at 25 °C (estimation)

**Vapour density:** No data available.

**Density:** 1,36 g/cm<sup>3</sup> , at 20 °C

**Bulk density:** 452 kg/m<sup>3</sup> , at 20 °C

**Water solubility:** 0,215 g/l Hydrolyses slowly. at 20 °C (OECD Test Guideline 105)

**Partition coefficient: n-octanol/water:** DI(MORPHOLIN-4-YL) DISULPHIDE : log Kow : 2,67 , at 22 °C (OECD Test Guideline 117)

<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	216 °C
<b>Viscosity:</b>	No data available.
<b>Explosive properties:</b>	
Explosivity:	Not explosive, Not relevant (due to the chemical structure)
<b>Oxidizing properties:</b>	No data available.

## 9.2. Other data:

<b>Solubility in other solvents:</b>	Alcohols , Acetone , Chloroform
<b>Surface tension:</b>	58,2 mN/m at 23 °C
<b>pKA:</b>	None.
<b>Molecular weight:</b>	236,35 g/mol

## 10. STABILITY AND REACTIVITY

10.1. **Reactivity:** No data available.

10.2. **Chemical stability:** No data available.

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

### 10.4. **Conditions to avoid:**

Do not store above 130 °C  
Store protected from moisture and heat.

### 10.5. **Incompatible materials to avoid:**

Strong acids and oxidizing agents

### 10.6. **Hazardous decomposition products:**

#### **Thermal decomposition:**

Decomposition temperature: 216 °C  
Thermal decomposition gives : Carbon oxides, Sulphur oxides, Nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

All available 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 mixture.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/4 h/Rat: 5,53 mg/l (Method: OECD Test Guideline 403) (Aerosol)

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

DI(MORPHOLIN-4-YL) DISULPHIDE :  
• In animals : LD50/Rat: 5.600 mg/kg (Method: OECD Test Guideline 401)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/Rat: 5.000 mg/kg (Method: OECD Test Guideline 401)

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

DI(MORPHOLIN-4-YL) DISULPHIDE :  
• In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 402)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
• In animals : No mortality/Rabbit: 5.000 mg/kg (Method: OECD Test Guideline 402)

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

**Skin contact:** According to its composition, can be considered as : Non irritating to skin

## DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : Mild skin irritation (after occlusive contact, 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 : **Not irritating to the eyes.**

## DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : Mild eye irritation (Rabbit)

## DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**Respiratory or skin sensitisation:**

**Inhalation:** No data available.

**Skin contact:** According to its composition : **May cause an allergic skin reaction.**

## DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : Skin sensitizer (Guinea pig)

## DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**CMR effects :**

**Mutagenicity:** Results from tests do not lead to considering the product as genotoxic

**In vitro**

## DI(MORPHOLIN-4-YL) DISULPHIDE :

Ames test in vitro: Inactive (Method: OECD Test Guideline 471)  
In vitro mammalian cell gene mutation test: Inactive

## 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**

## DI(MORPHOLIN-4-YL) DISULPHIDE :

Chromosome aberration test in vivo: Inactive (Method: OECD Test Guideline 475)

## 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 hazard 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 hazard potential of this mixture.

## DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

- In animals : Reproduction Test: No toxicity to reproduction  
NOAEL ( Parental toxicity ): 1.000 mg/kg bw/day  
NOAEL ( Fertility ): 1.000 mg/kg bw/day  
(Method: OECD Test Guideline 421, Rat, By oral route)

**Foetal development:** Based on the available data, the substance is not suspected of having developmental toxicity potential.

## DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : Absence of congenital malformations and embryotoxic effects at non-toxic doses for the mothers  
NOAEL ( Developmental Toxicity ): 250 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): 250 mg/kg bw/day  
(Method: OECD Test Guideline 414, Rat, By oral route)

## DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

- In animals : Absence of toxic effects for foetal development.  
NOAEL ( Developmental Toxicity ): 2.000 mg/kg bw/day  
NOAEL ( Maternal Toxicity ): < 125 mg/kg bw/day  
(Method: OECD Test Guideline 414, Rat, dermal route)

**Specific target organ toxicity :****Single exposure :**

**The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract

**Inhalation:**

**Irritating to respiratory system.**

DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : Irritating to respiratory system. , Rat

**Repeated exposure:**

**The substance or mixture is not classified as specific target organ toxicant, repeated exposure.**

DI(MORPHOLIN-4-YL) DISULPHIDE :

- In animals : By inhalation: Local irritation of the respiratory system  
NOAEL= 0,000507 mg/l (Method: OECD Test Guideline 413, Rat, 3 months)  
No specific toxic effects  
NOAEL= 8,38 mg/l

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= > 2.000 mg/kg (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)

**Aspiration hazard:**

Not applicable

**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: All available 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.

Acute aquatic toxicity : Toxic to aquatic life.

**12.1. Toxicity :****Fish:**

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

DI(MORPHOLIN-4-YL) DISULPHIDE :

LC50, 96 h (Oncorhynchus mykiss (rainbow trout)) : 3,7 mg/l (Method: OECD Test Guideline 203)

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: Toxic to daphnia.**

DI(MORPHOLIN-4-YL) DISULPHIDE :

EC50, 48 h (Daphnia magna (Water flea)) : 4,5 mg/l

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: Harmful to algae.**

DI(MORPHOLIN-4-YL) DISULPHIDE :

EC50, 96 h (Selenastrum capricornutum) : 29 mg/l

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

LL50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : > 100 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

**Microorganisms:**

DI(MORPHOLIN-4-YL) DISULPHIDE :

EC50, 3 h (Activated sludge) : 759 mg/l (Method: OECD Test Guideline 209, Respiration inhibition of activated sludge)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**Aquatic toxicity / Long term toxicity:**

**Aquatic invertebrates:**

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) : 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.**

DI(MORPHOLIN-4-YL) DISULPHIDE :  
Not readily biodegradable.  
76 % after 49 d  
Inherently biodegradable.

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
Not readily biodegradable.  
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 hasard potential of this mixture.

DI(MORPHOLIN-4-YL) DISULPHIDE :  
Partition coefficient: n-octanol/water: log Kow : 2,67 , at 22 °C (Method: OECD Test Guideline 117)

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

Surface tension: 58,2 mN/m 23 °C

**12.5. Results of PBT and vPvB assessment :**

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

**12.6. Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment:**

**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. Class*	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DI(MORPHOLIN-4-YL) DISULPHIDE)	9	9	III	Marine pollutant	EmS Number: F-A, S-F Mark: MP

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



14.4. Packing group

**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:**

### 15.2. Chemical Safety Assessment:

A Chemical Safety Assessment has been carried out for this substance.

#### INVENTORIES:

EINECS: Conforms to  
TSCA: Conforms to  
DSL: All components of this product are on the Canadian DSL  
IECSC (CN): Does not conform  
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

H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

#### Update:

Safety datasheet sections which have been updated:	Type:
3. COMPOSITION/INFORMATION ON INGREDIENTS	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).**