

**Product:** MIXLAND+® ZNO 80 GA F140

Page: 1 / 9

SDS No.: 100210-100 (Version 1.0)

Date 24.01.2023

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1. Product identifier**
**Identification of the mixture:** MIXLAND+® ZNO 80 GA F140

**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: <a href="http://www.mlpc-intl.com">http://www.mlpc-intl.com</a> fds@mlpc-intl.com
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**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):**

 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):**

EC Nr : 215-222-5

 Hazard  
 pictograms:


Signal word:

**Warning**

Hazard statements:

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

Precautionary statements:

**Prevention:**

P273 : Avoid release to the environment.

**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 the hazard potential of this mixture.

**Endocrine disrupting properties - Health :**

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

#### Endocrine disrupting properties - Environment :

Based on the available information, it is not possible to conclude on the endocrine disruptor potential.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

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

Mixture based on: Polymer

##### 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	specific concentration limit, M-Factors, Acute toxicity estimate
Zinc oxide (01-2119463881-32) (N° ANNEX: 030-013-00-7)	215-222-5	1314-13-2	Approximately <= 80 %	Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor Acute = 1 M-Factor Chronic = 1
Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	5 - 8 %	Asp. Tox.1; H304 Nota L: DMSO <3%	

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

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

### 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/effects, acute and delayed: No data available.

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

### SECTION 5: FIREFIGHTING MEASURES

#### 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.

**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):**ZINC OXIDE :

No adverse effects have been observed at the highest recommended concentrations/doses tested , thus no DNELs were derived

**Predicted No Effect Concentration:** ZINC OXIDE :

Compartment:	Value:
Fresh water	17,9 µg/l
Marine water	9 µg/l
Effects on waste water treatment plants	124,5 µg/l
Fresh water sediment	182,8 mg/kg dw
Marine sediment	201,9 mg/kg dw
Soil	103,4 mg/kg dw

**8.2. Exposure controls: No data available.**

**Personal protective equipment:**

**Environmental exposure controls:** See chapter 6

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

<b>Physical state (20°C):</b>	solid
<b>Form:</b>	granules
<b>Colour:</b>	white
<b>Odour:</b>	odourless
<b>Odour Threshold:</b>	Not relevant
<b>Melting point/range :</b>	1.975 °C (Reported data)
<b>Boiling range :</b>	not determined
<b>Flammability:</b>	No data available.
<b>Upper explosion limit :</b>	No data available.
<b>Flash point:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>pH:</b>	No data available.
<b>Viscosity, kinematic:</b>	No data available.
<b>Water solubility:</b>	No data available.
<b>Partition coefficient: n-octanol/water:</b>	ZINC OXIDE : inorganic
<b>Vapour pressure:</b>	negligible
<b>Density:</b>	2.500 g/cm <sup>3</sup> , at 20 °C packed 9.000 g/cm <sup>3</sup> , at 20 °C True volume mass
<b>Relative vapour density:</b>	No data available.
<b>Particle size:</b>	measured 0,7 - 0,8 cm pellets

**9.2. Other information:**

<b>Molecular weight:</b>	84 g/mol
<b>Explosive properties:</b>	
Minimum ignition energy:	not determined

**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 (NO<sub>x</sub>), Carbon dioxide (CO<sub>2</sub>), Sulphur oxides

**SECTION 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 hazard classes as defined in Regulation (EC) No 1272/2008:****Acute toxicity:**

<b>Inhalation:</b>	<b>Inhalation of vapours due to thermal decomposition: Toxic effects cannot be excluded</b>
ZINC OXIDE :	

• In animals : No mortality/4 h/Rat: 5,7 mg/l (Method: OECD Test Guideline 403) (Aerosol)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**Ingestion:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

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

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**Dermal:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

• In animals : No mortality/Rat: 2 g/kg (Method: OECD Test Guideline 402)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

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

**Skin contact:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

• In animals : No skin irritation (Rabbit, Exposure time: 24 h)  
Non-corrosive. (OECD Test Guideline 431)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**Eye contact:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

• In animals : Mild eye irritation (OECD Test Guideline 405, 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:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

• In animals : Equivocal response. (Method: OECD Test Guideline 406 Guinea pig maximization test)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

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

**CMR effects :**

**Mutagenicity:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

**In vitro**

ZINC OXIDE :

Ames test in vitro: Inactive (Method: OECD Test Guideline 471)  
Chromosome aberration test in vitro: Some positive tests (Method: OECD Test Guideline 473)  
In vitro mammalian cell gene mutation test: Inconclusive results (Method: OECD Test Guideline 476)  
unscheduled DNA synthesis assay: Active

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 OXIDE :

In vivo micronucleus test: Inactive (Method: OECD Test Guideline 474)  
Chromosome aberration test in vivo: Active

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 :  
According to its composition :, Not carcinogenic.

#### Reproductive toxicity:

**Fertility:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :  
• In animals :  
Two generations study.  
NOAEL ( Parental toxicity ) : 7,5 mg/kg bw/day  
NOAEL ( Fertility ) : 7,5 mg/kg bw/day  
NOAEL ( Developmental Toxicity ) : 7,5 mg/kg bw/day  
(Method: OECD Test Guideline 416, Rat, By oral route)  
(Results obtained on a similar product).

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 hazard potential of this mixture.**

ZINC OXIDE :  
• In animals :  
Absence of toxic effects for foetal development.  
NOAEL ( Developmental Toxicity ) : 7,5 mg/m<sup>3</sup>  
NOAEL ( Maternal Toxicity ) : 1,5 mg/m<sup>3</sup>  
(Method: OECD Test Guideline 414, Rat, By inhalation) (Aerosol)  
May be considered as comparable to a similar product for which experimental results are:  
Absence of toxic effects for foetal development.  
NOAEL ( Developmental Toxicity ) : 30 mg/kg bw/day  
NOAEL ( Maternal Toxicity ) : 30 mg/kg bw/day  
(Method: OECD Test Guideline 414, rat, mouse, rabbit, By oral route)

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 :

**Inhalation:** **According to its composition : Risk of irritation of respiratory system**

**Repeated exposure:** **Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :  
• In animals :  
By inhalation: Hyperplasia, Target organs: Respiratory Tract, NOAEL= 0,0015 mg/l (Method: OECD Test Guideline 413, Rat, 3 months) (Aerosol)

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

By diet: No specific toxic effects  
Blood disorders, changes in body weight, NOAEL= 234 mg/kg (Method: OECD Test Guideline 408, Rat, 3 months)

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)

#### Aspiration hazard:

Not applicable

#### 11.2. Information on other hazards:

**Endocrine disrupting properties:** **Based on the available information, it is not possible to conclude on the endocrine disruptor potential.**

**Other information:** Not relevant**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicology Assessment: 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.

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

**12.1. Toxicity :**

**Fish:** **From its composition, it must be considered as: Very toxic to fish**

ZINC OXIDE : LC50, 96 h (Oncorhynchus mykiss (rainbow trout)) : 0,169 mg/l (Test substance: Active ingredient)

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 OXIDE : EC50, 48 h (Ceriodaphnia (water flea)) : 0,147 - 0,53 mg/l (Test substance: Active ingredient)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
May be considered as comparable to a similar product for which experimental results are:  
LL50, 48 h (Daphnia magna (Water flea)) : > 10.000 mg/l (Method: OECD Test Guideline 202)

**Aquatic plants:** **From its composition, it must be considered as: Very toxic to algae.**

ZINC OXIDE : ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 0,136 mg/l (Method: OECD Test Guideline 201, Test substance: Active ingredient)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
May be considered as comparable to a similar product for which experimental results are:  
ErL50, 72 h (Pseudokirchneriella subcapitata (green algae)) : > 100 mg/l (Method: OECD Test Guideline 201)

**Microorganisms:**

ZINC OXIDE : NOEC, 4 h (Activated sludge) : > 100 µg/l (Test substance: Active ingredient)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
May be considered as comparable to a similar product for which experimental results are:  
NOEC, 4 d (Photobacterium phosphoreum) : > 1,93 mg/l (Method: DIN 38412)

**Aquatic toxicity / Long term toxicity:****Fish:**

ZINC OXIDE : NOEC (Fish) : 0,025 - 0,530 mg/l (Test substance: Active ingredient)

**Aquatic invertebrates:**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
May be considered as comparable to a similar product for which experimental results are:  
NOEC, 21 d (Daphnia magna (Water flea)) : 10 mg/l (Method: OECD Test Guideline 211, Growth inhibition/Reproduction inhibition)

ZINC OXIDE : NOEC (various animal species) : 0,014 - 0,4 mg/l (Test substance: Active ingredient)

**Aquatic plants:**

ZINC OXIDE : NOEC, 72 h (Pseudokirchneriella subcapitata (green algae)) : 0,019 mg/l (Test substance: Active ingredient)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
NOEC r, 72 h (Pseudokirchneriella subcapitata (green algae)) : 100 mg/l (Method: OECD Test Guideline 201)

**Non aquatic toxicity / Toxicity :****Toxicity to soil dwelling organisms:**

ZINC OXIDE :

NOEC (Folsomia candida) : 14,6 mg/kg ( Soil dw ) ( Test substance: Active ingredient)

**Terrestrial plants:**

ZINC OXIDE :

NOEC (Trifolium pratense (Red clover)) : 32 mg/kg ( Test substance: Active ingredient)

**12.2. Persistence and degradability :****Stability in water:**DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :  
Not hydrolysable**Biodegradation (In water):****Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

Not readily biodegradable.: 2 - 31 % after 28 d (Method: OECD Test Guideline 301 B)

ZINC OXIDE :

Not applicable, inorganic

**12.3. Bioaccumulative potential :****Bioaccumulation:****Based on the available information, it is not possible to conclude on the hazard potential of this mixture.**

ZINC OXIDE :

inorganic

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

Vapor pressure:

negligible,

**12.5. Results of PBT and vPvB assessment :****Based on the available information, it is not possible to conclude on the hazard potential of this mixture.****12.6. Endocrine disrupting properties:****Based on the available information, it is not possible to conclude on the endocrine disruptor potential.****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 number	14.2. UN proper shipping name	14.3. Class <sup>s*</sup>	Label	14.4. PG <sup>*</sup>	14.5. Environmental hazards	14.6. Special precautions for user
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	9	9	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (Zinc Oxide)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (Zinc Oxide)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)	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. Maritime transport in bulk according to IMO instruments:** Not applicable**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:****Listed in:**

EU. REACH, Annex XVII, Appendix 2, Entry 28 - Carcinogens: Category 1B (CLP Table 3 of Anx VI). (Reg. 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified [ complex combination of hydrocarbons obtained by trea  
EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified [ complex combination of hydrocarbons obtained by trea

**15.2. Chemical safety assessment:** None.**INVENTORIES:**

European union/EEA : In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information.

TSCA (USA) : The components of this product are all on the TSCA Inventory  
DSL/NDSL (CA) : All components of this product are on the Canadian DSL  
IECSC (CN) : All components of this product are listed or exempted  
ENCS (JP) : All components of this product are listed or exempted  
ISHL (JP) : All components of this product are listed or exempted  
KECI (KR) : All components of this product are listed or exempted  
PICCS (PH) : All components of this product are listed or exempted  
NZIOC (NZ) : All components of this product are listed or exempted  
AIIC (AU) : All components of this product are listed or exempted  
TCSI (TW) : All components of this product are listed or exempted

**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.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Update:**

Safety datasheet sections which have been updated:		Type:
1-16	General update of Safety Data Sheet.	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).**

