

Product: **Mixland NewGen ZDBC 75 G**

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SDS No.: 100112-100 (Version 2.1)

Date 20.05.2016 (Cancel and replace : 27.07.2015)

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

1.1. Identification of the product

Identification of the mixture: Mixland NewGen ZDBC 75 G

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

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(dibutyl)dithiocarbamate)

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.

Precautionary statements:

Prevention:

P273 : Avoid release to the environment.
P280 : Wear protective gloves.

Response:

P333 + P313 : If skin irritation or rash 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.

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 : According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

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
Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	> 13 %	AH 1; H304 Nota L: DMSO <3%
Zinc bis(dibutylthiocarbamate) (01-2119535161-51) (N° ANNEX: 006-081-00-9)	205-232-8	136-23-2	< 75 %	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 1 M-Factor Chronic = 10

¹: See chapter 14 for Proper Shipping Name

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.

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. 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 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

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

Distillates (petroleum), hydrotreated light paraffinic

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EU SCOELS	2014	TWA	–	5	8 hours Inhalable
EU SCOELS	2014		–	–	Inhalable Listed
ACGIH (US)	02 2012		–	–	Exposure by all routes should be carefully controlled to levels as low as possible.
ACGIH (US)	02 2012		–	–	Included in the regulation but with no data values. See regulation for further details.
ACGIH (US)	02 2012	TWA	–	5	Inhalable fraction.

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

Predicted No Effect Concentration: No data available.

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: 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: light blue, pigmented
Odour: odourless
Olfactory threshold: Not relevant
pH: No data available.
Melting point : 100 - 112 °C (Pressure 1.013 hPa) Active ingredient (OECD Test Guideline 102)
Boiling temperature : 318 °C (Pressure 1.013 hPa) Pure substance (A2 Method (D. 92/69/ECC))
Flash point: Not relevant
Evaporation rate: No data available.
Flammability (solid, gas):
Flammability: Non flammable product (Flammability (solids))
Vapour pressure: < 0,0001 Pa , at 20 °C Active ingredient (A4 Method (D. 92/69/ECC))
Vapour density: No data available.
Density: 1.130 g/cm³ , at 20 °C
Water solubility: < 0,1 mg/l at 25 °C (OECD Test Guideline 105)
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:
Explosivity: Active ingredient, Not explosive (A14 Method)

Oxidizing properties: The substance or mixture is not classified as oxidizing. (Oxidizing properties (solids))

9.2. Other data:

Solubility in other solvents: Soluble in: Benzene , Chloroform
partly soluble Hexane

Surface tension: approximately 70,8 mN/m Active ingredient (OECD Test Guideline 115)

pKA: None.

Molecular weight: 474 g/mol (Literature)

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:
Reacts with acids under release of toxic and highly flammable carbon disulfide.

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

11. TOXICOLOGICAL INFORMATION

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.

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :
No data available.

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

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :
• In animals : No mortality/Rat: 5.000 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

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :
• In animals : No mortality/Rabbit: 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 : 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 :

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

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: According to its structure, must be considered as : Skin sensitizer

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

• In animals : Strong sensitizing effects by skin contact. (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 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 hazard potential of this mixture.

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

• In animals : According to limited available data, Absence of carcinogenic effects (Mouse, dietary administration)

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.

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

Through analogy with a comparable product :

• In animals : Two generations study.
NOAEL (Parental toxicity) : 25 mg/kg bw/day
NOAEL (Fertility) : 10 mg/kg bw/day
(Method: OECD Test Guideline 416, Rat, By diet)

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 information, it is not possible to conclude on the hazard potential of this mixture.
- ZINC BIS(DIBUTYLDITHIOCARBAMATE) :
Through analogy with a comparable product :
• In animals :
Exposure during pregnancy: Absence of toxic effects for foetal development
NOAEL (Developmental Toxicity): 1.250 mg/kg bw/day
NOAEL (Maternal Toxicity): 125 mg/kg bw/day
(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:

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

Irritating to respiratory system.

Repeated exposure:**Based on the available information, it is not possible to conclude on the hazard 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= > 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

Further information:

Use of alcoholic beverages when exposed to the product may result in adverse health effects (Antabuse effect)

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 : Very toxic to aquatic life.

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

12.1. Toxicity :**Fish:****Slightly harmful to fish**

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:**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:

Toxic to algae.

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

Through analogy with a comparable product :

EC50, 96 h (Chlorella pyrenoidosa (algae)) : 1,1 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC :

LL50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : > 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

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) :

Through analogy with a comparable product :

NOEC, 21 d (Daphnia magna (Water flea)) : 0,0032 mg/l (Method: OECD Test Guideline 211)

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 :

Stability in water:

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

Through analogy with a comparable product :

Half-life: 0,2 h at 25 °C and pH 5

Half-life: 17,7 h at 25 °C and pH 7

Half-life: 6,3 d at 25 °C and pH 9

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)

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:

From its composition, it must be considered as: , Bioaccumulable

ZINC BIS(DIBUTYLDITHIOCARBAMATE) :

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

12.4. Mobility in soil - Distribution among environmental compartments:

Surface tension:

approximately 70,8 mN/m Active ingredient, (Method: OECD Test Guideline 115)

12.5. Results of PBT and vPvB assessment :

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

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. Class*	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	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC DIBUTYLDITHIOCARBAMATE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (Zinc dibutyldithiocarbamate)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (Zinc dibutyldithiocarbamate)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC DIBUTYLDITHIOCARBAMATE)	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:**

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 3.1)/Category 2 (Table 3.2). (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil -- unspecified

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

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
KECI (KR): Conforms to
PICCS (PH): Conforms to
AICS: Conforms to
NZIOC: Conforms to

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.

Update:

Safety datasheet sections which have been updated:		Type:
3	REACH Registration Number	Additions

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).