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# SAFETY DATA SHEET

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

**Product:** **EKALAND™ DPTU PD**

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SDS No.: 100018-100 (Version 5.0)

Date 18.12.2020 (Cancel and replace : 26.08.2019)

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

### 1.1. Product identifier

**Substance name:** EKALAND™ DPTU PD  
REACH Registration Number: 01-2119980831-31-0000  
EC Nr: 203-004-2  
CAS-No.: 102-08-9

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

#### Use of the Substance/Mixture :

Sector of use :	Product category :
Manufacture of Masterbatches <b>SU 10:</b> Formulation	<b>PC32:</b> Polymer preparations and compounds
Formulation and (re)packing <b>SU 10:</b> Formulation	<b>PC32:</b> Polymer preparations and compounds
Manufacture of General Rubber Goods <b>SU11:</b> Manufacture of rubber products	<b>PC32:</b> Polymer preparations and compounds
Manufacture of PVC articles <b>SU12:</b> Manufacture of plastics products, including compounding and conversion	<b>PC32:</b> Polymer preparations and compounds
Sealant manufacturing - Scotch <b>SU12:</b> Manufacture of plastics products, including compounding and conversion	<b>PC1:</b> Adhesives, sealants

### 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

E-mail address : Exposure scenario reachsubstance@mlpc-intl.com

### 1.4. Emergency telephone number

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

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Skin sensitisation, 1A, H317  
Reproductive toxicity, 2, H361d  
Specific target organ toxicity - repeated exposure, 2, Thyroid gland, H373  
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:

CAS-No. : 102-08-9

1,3-Diphenyl-2-thiourea

Hazard  
pictograms:



Signal word: **Warning**

## Hazard statements:

H317 : May cause an allergic skin reaction.  
 H361d : Suspected of damaging the unborn child.  
 H373 : May cause damage to organs through prolonged or repeated exposure.  
 H411 : Toxic to aquatic life with long lasting effects.

## Precautionary statements:

**Prevention:**

P201 : Obtain special instructions before use.  
 P260 : Do not breathe dust or mist.  
 P273 : Avoid release to the environment.  
 P280 : Wear protective gloves and protective clothing and eye protection and face protection.

**Response:**

P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.  
 P308 + P313 : IF exposed or concerned: Get medical advice/ attention.

**Disposal:**

P501 : Dispose of contents and container to an approved incineration plant.

2.3. **Other hazards** : None.**Other:**

Results of PBT and vPvB assessment : According to REACH regulation, annex XIII, the substance does not meet PBT and vPvB criteria.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Chemical name <sup>1</sup>	EC-No.	CAS-No.	Concentration	Classification REGULATION (EC) No 1272/2008
1,3-Diphenyl-2-thiourea	203-004-2	102-08-9	100 %	Skin Sens.1A; H317 STOT RE2; H373 Repr.2; H361d Aquatic Chronic2; H411

<sup>1</sup>: 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. Oxygen or artificial respiration if needed. Consult a physician.

**Skin contact:**

Wash off immediately with soap and plenty of water.

**Eye contact:**

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

**Ingestion:**

If swallowed, do not induce vomiting - seek medical advice.

**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**

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**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 : Temperature exceeding 280 °C:  
Sulphur oxides, Nitrogen oxides (NOx)

**5.3. Advice for firefighters:**

**Specific methods:**

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

**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:**

Destroy the product by incineration (in accordance 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:**

Storage and handling precautions applicable to products: Dust forming. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Provide water supplies, ocular fountains and showers near the point of use.

**Hygiene measures:**

General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Avoid breathing dust.  
Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

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

Keep in a well-ventilated place. Keep in a dry place. Store protected from moisture.

**Incompatible products:**

Strong acids Oxidizing agents

**Packaging material:**

**Recommended:** Paper bags, Big bags.

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

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Exposure Limit Values (dust)**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
ACGIH (US)	03 2014	TWA	–	3	Respirable particles.
ACGIH (US)	03 2014	TWA	–	10	Inhalable particles.

**Exposure Limit Values**

Not relevant

**Derived No Effect Level (DNEL):**

End Use	Inhalation	Ingestion	Skin contact
Workers	0,59 mg/m <sup>3</sup> (LT, SE)		0,17 mg/kg (LT, SE)
Consumers	0,15 mg/m <sup>3</sup> (LT, SE)	0,08 mg/kg (LT, SE)	0,08 mg/kg (LT, SE)

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

**Predicted No Effect Concentration:**

Compartment:	Value:
Fresh water	0,003 mg/l
Effects on waste water treatment plants	10 mg/l
Water (Intermittent release)	0,1 mg/l
Marine water	0,0003 mg/l
Soil	0,071 mg/kg
Marine sediment	0,037 mg/kg
Fresh water sediment	0,366 mg/kg

**8.2. Exposure controls:**

**General protective measures:** Ensure sufficient air exchange and/or exhaust in work areas  
**Appropriate engineering controls:** Provide appropriate exhaust ventilation at machinery.

**Personal protective equipment:**

Respiratory protection: Effective dust mask  
Hand protection: Impervious gloves  
Eye/face protection: Tightly fitting safety goggles  
Skin and body protection: At the workplace : 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:** Whitish.  
**Odour:** slight  
**Olfactory threshold:** No data available.  
**pH:** Not relevant  
**Melting point :** 151 - 154 °C  
> 250 °C (OECD Test Guideline 103)  
**Flash point:** Not relevant  
**Evaporation rate:** No data available.  
**Flammability (solid, gas):**  
Flammability: Non flammable product (Standard A10)  
**Vapour pressure:** < 0,001 Pa , at 25 °C (calculated)  
**Vapour density:** No data available.  
**Density:** Average 1,3 g/cm<sup>3</sup> Molten form  
**Bulk density:** Average 0,3 kg/m<sup>3</sup>  
**Water solubility:** 24,37 g/l at 20 °C (OECD Test Guideline 105)  
**Partition coefficient: n-octanol/water:** log Kow : 2 (measured)  
**Auto-ignition temperature:** No data available.  
**Decomposition temperature:** No data available.  
**Viscosity:** No data available.  
**Explosive properties:**  
Explosivity: Not relevant (due to its chemical structure)

**Oxidizing properties:** Not relevant (due to its chemical structure)

## 9.2. Other data:

**Solubility in other solvents:** soluble Chloroform (Reported data)  
**Surface tension:** pKa1 11,6 mN/m at 21 °C (OECD Test Guideline 115)  
**pKA:** pKa1 11,7 at 21 °C (OECD Test Guideline 112)  
 pKa2 11,95 at 21 °C (OECD Test Guideline 112)  
**Molecular weight:** 228,3 g/mol (Literature)

## 10. STABILITY AND REACTIVITY

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

### 10.2. Chemical stability:

Product stable in the absence of moisture

**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:

Acids, Strong oxidizing agents

### 10.6. Hazardous decomposition products:

Nitrogen oxides (NOx), Sulphur oxides  
 Thermal decomposition gives :, 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:** No data available.

**Ingestion:** **Slightly or not harmful by ingestion**  
 • In animals : No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 401)

**Dermal:** **Slightly or not harmful in contact with skin**  
 • In animals : No mortality/Rat: (Method: OECD Test Guideline 402)

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

**Skin contact:** **Non irritating to skin**  
 • In animals : No skin irritation (OECD Test Guideline 404, Rabbit)

**Eye contact:** **Not irritating to the eyes.**  
 • In animals : No eye irritation (OECD Test Guideline 405, Rabbit)

#### Respiratory or skin sensitisation:

**Inhalation:** No data available.

**Skin contact:** **Strong skin sensitizer**  
 • In man : Some cases of cutaneous sensitization reported  
 • In animals : Strong sensitizing effects by skin contact.  
 (Method: LLNA: Local Lymph Node Assay, Mouse)  
 (Method: Guinea pig maximization test )

#### CMR effects :

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

<b>In vitro</b>	Ames test in vitro: Inactive (Method: OECD Test Guideline 471) In vitro gene mutations test on mammalian cells: Active (Method: OECD Test Guideline 476)
<b>In vivo</b>	Micronucleus test in vivo rat: Inactive (Method: OECD Test Guideline 474)
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	
<b>Foetal development:</b>	<b>Suspected of damaging the unborn child.</b> Exposure during pregnancy: Toxic effects for foetal development NOAEL ( Developmental Toxicity ): 50 mg/kg bw/day (Method: OECD Test Guideline 414, Rat, By oral route) NOAEL ( Maternal Toxicity ): > 200 mg/kg bw/day
• In animals :	
<b><u>Specific target organ toxicity :</u></b>	
<b><u>Single exposure :</u></b>	
<b>Inhalation:</b>	At high concentrations , Dust inhalation:, Possible irritation of respiratory system
<b><u>Repeated exposure:</u></b>	<b>The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.</b> Target Organs : Thyroid gland
• In animals :	By oral route: Target organs: Thyroid gland, NOAEL= 50 mg/kg (Method: OECD Test Guideline 407, Rat, 4 Weeks)
<b><u>Aspiration hazard:</u></b>	Not relevant

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

### 12.1. Acute toxicity :

<b>Fish:</b>	<b>No effect up to the limit of solubility</b> LC50, 96 h (Danio rerio (zebra fish)) : > 33 mg/l (Method: OECD Test Guideline 203)
<b>Aquatic invertebrates:</b>	<b>Toxic to daphnia.</b> EC50, 48 h (Daphnia magna (Water flea)) : 10,0 mg/l (Method: OECD Test Guideline 202)
<b>Aquatic plants:</b>	<b>Harmful to algae.</b> ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 14 mg/l (Method: OECD Test Guideline 201)
<b>Microorganisms:</b>	NOEC, 28 d (Activated sludge) : 100 mg/l

### Aquatic toxicity / Long term toxicity:

<b>Aquatic invertebrates:</b>	NOEC, 21 d (Daphnia magna (Water flea)) : 0,15 mg/l (Method: OECD Test Guideline 211)
<b>Aquatic plants:</b>	ErC10, 72 h (Pseudokirchneriella subcapitata (green algae)) : 4,7 mg/l (Method: OECD Test Guideline 201)

### 12.2. Persistence and degradability :

<b>Stability in water:</b>	Not hydrolysable
<b>Biodegradation (In water):</b>	<b>Not readily biodegradable.</b> Not readily biodegradable.: 0 % after 28 d (Method: OECD Test Guideline 301 F)

### 12.3. Bioaccumulative potential :

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**Bioaccumulation:** **Bioaccumulation is unlikely.**  
Partition coefficient: n-octanol/water: log Kow : 2 (Method: measured)

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

**Vapor pressure:** < 0,001 Pa, 25 °C, (Method: calculated)  
**Surface tension:** pKa1 11,6 mN/m 21 °C (Method: OECD Test Guideline 115)

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

According to REACH regulation, annex XIII, the substance does not meet 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 <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. (1,3-DIPHENYL-2-THIOUREE)	9	9	III	yes	
ADN	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,3-DIPHENYL-2-THIOUREE)	9	9	III	yes	
RID	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,3-DIPHENYL-2-THIOUREE)	9	9	III	yes	
IATA Cargo	3077	Environmentally hazardous substance, solid, n.o.s. (1,3-DIPHENYL-2-THIOUREE)	9	9MI	III	yes	
IATA Passenger	3077	Environmentally hazardous substance, solid, n.o.s. (1,3-DIPHENYL-2-THIOUREE)	9	9MI	III	yes	
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (1,3-DIPHENYL-2-THIOUREE)	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:** None.

**INVENTORIES:**

EINECS:	Conforms to
TSCA:	Conforms to
AICS:	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
ISHL (JP):	Conforms to
PICCS (PH):	Conforms to
NZIOC:	Conforms to

**16. OTHER INFORMATION****Full text of H, EUH-phrases referred to under sections 2 and 3**

H317	May cause an allergic skin reaction.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

**Update:**

Safety datasheet sections which have been updated:		Type:
1	1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING, Emergency telephone number	Revisions
Exposure scenario	one or more exposure scenario have been changed: see dates and versions, SAFETY DATA SHEET	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).**