

# SAFETY DATA SHEET

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

its amendment(s)

# **Product:**

# EKALAND™ DETU CR

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# SDS No.: 100008-100 (Version 7.0)

Date 05.12.2022 (Cancel and replace : 30.11.2022)

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1. Product identifier

Substance name: EKALAND™ DETU CR REACH Registration Number: 01-2119974271-37-0000 EC Nr: 203-308-5 CAS-No.: 105-55-5

# 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 General Rubber Goods SU11: Manufacture of rubber products	PC32: Polymer preparations and compounds
Formulation and (re)packing <b>SU 10:</b> Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	PC32: Polymer preparations and compounds
Manufacture of Masterbatches <b>SU 10:</b> Formulation	PC32: Polymer preparations and compounds
Anti-corrosion paint application <b>SU14:</b> Manufacture of basic metals, including alloys	PC0: Corrosion inhibitor
Anticorrosive preparation <b>SU14:</b> Manufacture of basic metals, including alloys	PC9a: Coatings and paints, thinners, paint removers
Manufacture of Tyres <b>SU11:</b> Manufacture of rubber products	PC32: Polymer preparations and compounds
Formulation and (re)packing of detergent <b>SU3:</b> Industrial uses	<b>PC35:</b> Washing and cleaning products (including solvent based products)

# 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)

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

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

Oral: Acute toxicity, 4, H302 Acute toxicity, 4, H312 Eye irritation, 1, H318 Skin sensitisation, 1B, H317 Oral: Specific target organ toxicity - repeated exposure, 1, Thyroid gland, H372 Chronic aquatic toxicity, 3, H412

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. : 105-55-5

1,3-Diethyl-2-thiourea



Signal word:

Danger

#### Hazard statements:

- H302 : Harmful if swallowed.
- H312 : Harmful in contact with skin.
- H318 : Causes serious eye damage.
- H317 : May cause an allergic skin reaction.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H412 : Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P310 : Immediately call a POISON CENTER or doctor.
- P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.
- P273 : Avoid release to the environment.
- Prevention:

 $\ensuremath{\mathsf{P280}}$  : Wear protective gloves and protective clothing and eye protection and face protection.

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

#### 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 :

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

#### 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

### 3.1.Substances

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
1,3-Diethyl-2-thiourea	203-308- 5	105-55-5	98 - 100 %	Acute Tox.4 (Oral); H302 Acute Tox.4 (Dermal); H312 Eye Dam.1; H318 Skin Sens.1; H317 STOT RE1 (Oral); H372 Aquatic Chronic3; H412	

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

# **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. Oxygen or artificial respiration if needed. Consult a physician.

#### Skin contact:

Wash off immediately with soap and plenty of water.

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## 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 and effects, both 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 :, 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.

# SECTION 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.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. Control parameters:

**Exposure Limit Values** 

Not relevant

# Derived No Effect Level (DNEL):

End Use	Inhalation	Ingestion	Skin contact
Workers	0,14 mg/m3 (LT, SE)		2,08 mg/kg (LT, SE)
Consumers	0,04 mg/m3 (LT, SE)	0,02 mg/kg (LT, SE)	1,04 mg/kg (LT, SE)

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

# Predicted No Effect Concentration: 1,3-DIETHYL-2-THIOUREA :

Compartment:	Value:
Fresh water	0,033 mg/l
Marine water	0,0033 mg/l
Water (Intermittent release)	0,560 mg/l
Effects on waste water treatment plants	0,2 mg/l
Fresh water sediment	0,25 mg/kg dw
Marine sediment	0,025 mg/kg dw
Soil	0,03 mg/kg dw

#### 8.2. <u>Exposure controls:</u> General protective measures:

Ensure sufficient air exchange and/or exhaust in work areas

Personal protective equipment: Respiratory protection: Hand protection: Eye/face protection: Skin and body protection:

Effective dust mask Impervious gloves Tightly fitting safety goggles At the workplace : Protective suit.

Environmental exposure controls: See chapter 6

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Appearance:	
Physical state (20°C):	solid
Form:	powder
Colour:	white
Odour:	very faint
Odour Threshold:	No data available.
Melting point/range :	76 - 80 °C (OECD Test Guideline 102)
Boiling range :	215 °C (OECD Test Guideline 103)
Flammability:	
Flammability (solid, gas):	Non flammable product (Method A10: Flammability (solids))
Upper explosion limit :	No data available.
Flash point:	Not relevant
Auto-ignition temperature:	No data available.
Decomposition temperature:	approx. 243 °C (A2 Method (D. 92/69/ECC))
pH:	Concentration 1 %, Temperature 20 °C, pH 7,1
Viscosity, kinematic:	Not applicable
Water solubility:	42 g/l at 25 °C (OECD Test Guideline 105)
Solubility in other solvents:	Soluble in: , Methanol , Ether , Acetone
Partition coefficient: n-octanol/water:	log Kow : 0,57 , at 20 °C

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Partition coefficient: n-octanol/water:	1,3-DIETHYL-2-THIOUREA :	
	log Kow : 0,57 (OECD Test Guideline 107)	
Vapour pressure:	0,00065 Pa , at 25 °C (A4 Method (D. 92/6	9/ECC))
Density:	1,1 g/cm3 , at 20 °C True volume mass	
Relative vapour density:	No data available.	
Particle size:	D10 : 125 µm powder	
	D50 : 375 µm powder	
	D90 : 670 µm powder	
Surface tension:	76,1 mN/m at 21,5 °C / 1.000 mg/l (OECI	D Test Guideline 115)
Bulk density:	Average 0,77 kg/m3, at 20 °C	
pKA:	None.	
Molecular weight:	132 g/mol (Literature)	
Explosive properties:		
Dust explosion class:	No data available	
Minimum ignition energy:	not determined	
5 5 5 5		
Explosivity:	Not relevant (due to its chemical structure)	

# SECTION 10: STABILITY AND REACTIVITY

# 10.1. <u>Reactivity:</u> 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.** <u>Conditions to avoid:</u> Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

#### 10.5. Incompatible materials to avoid: Oxidizing agents, Strong acids

# 10.6. Hazardous decomposition products:

# Thermal decomposition:

Decomposition temperature: approx. 243 °C Sulphur oxides, Carbon dioxide (CO2) Thermal decomposition gives :, Nitrogen oxides (NOx)

# SECTION 11: TOXICOLOGICAL INFORMATION

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

## Acute toxicity:

Ingestion:	Harmful if swallowed. LD50/Mouse: = 930 mg/kg	
Dermal:	Harmful in contact with skin.	
• In animals :	LD50/Rat: 2.000 mg/kg (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, Exposure time: 4 h)	
Eye contact:	<b>Risk of serious damage to eyes.</b>	
• In animals :	Very irritating. (OECD Test Guideline 405, Rabbit)	
Respiratory or skin sensitisation:		
Inhalation:	No data available.	
Skin contact:	Weak skin sensitizer	
• In man :	Proven human sensitizer	

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• In animals :	Slight sensitizer to guinea-pigs (Method: LLNA: Local Lymph Node Assay, Mouse)				
CMR effects :	Signi sensilizer to guinea-pigs (Methou. LENA. Local Lymph Node Assay, Mouse)				
Mutagenicity:	According to available experimental data: Overall not genotoxic				
In vitro	According to available experimental data. Overall not genotoxic				
in vitro	Ames test in vitro: Inactive In vitro test for chromosomal abnormalities on CHO cells: Inactive In vitro gene mutations test on mammalian cells: Active				
ln vivo	Micronucleus test in vivo rat: Inactive (Method: OECD Test Guideline 474) Comet assay: Active				
Carcinogenicity: • In animals :	According to available experimental data: The tumorigenes effects on the thyroid observed in strong amounts in the rat are considered not to be extrapolated to humans. (Rat, 2 years, By diet) Absence of carcinogenic effects (Mouse, 2 years, By diet)				
Reproductive toxicity:					
Foetal development:	According to available experimental data:				
<u>Specific target organ toxicity :</u> <u>Single exposure :</u>					
Inhalation:	At high concentrations , Dust inhalation:, Possible irritation of respiratory system				
Repeated exposure:	Exposure routes : Ingestion Target Organs : Thyroid gland				
• In animals :	Oral: Danger of serious damage to health by prolonged exposure. Target organs: Thyroid gland, NOAEL= < 6,25 mg/kg (Rat, Repeated exposure)				
Aspiration hazard:	Not relevant				
1.2. Information on other hazards:					
Endocrine disrupting properties:	Based on the available information, it is not possible to conclude on the end potential.	ocrine disruptor			
Other information:	Not relevant				
SECTION 12: ECOLOGICAL INFORM	IATION				
Ecotoxicology Assessment:	All available data on this product and/or the components quoted in section 3 and/or th substances/metabolites have been taken into account for the hazard assessment.	e analogue			
	Acute aquatic toxicity : Harmful to aquatic life.				
2.1. <u>Toxicity :</u>					
Fish:	Slightly harmful to fish				
	LC50, 96 h (Brachydanio rerio): 910 mg/l (Method: OECD Test Guideline 203)				
1,3-DIETHYL-2-THIOUREA :	LC50, 96 h (Brachydanio rerio): 910 mg/l (Method: OECD Test Guideline 203)				
1,3-DIETHYL-2-THIOUREA : Aquatic invertebrates:	LC50, 96 h (Brachydanio rerio): 910 mg/l (Method: OECD Test Guideline 203) Harmful to daphnia.				
		02)			
Aquatic invertebrates:	Harmful to daphnia.	02)			
Aquatic invertebrates: 1,3-DIETHYL-2-THIOUREA :	Harmful to daphnia. EC50, 48 h (Daphnia magna (Water flea)) : 56 mg/l (Method: OECD Test Guideline 2				
Aquatic invertebrates: 1,3-DIETHYL-2-THIOUREA : Aquatic plants:	<ul> <li>Harmful to daphnia.</li> <li>EC50, 48 h (Daphnia magna (Water flea)) : 56 mg/l (Method: OECD Test Guideline 2</li> <li>Slightly harmful to algae</li> <li>ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 310 mg/l (Method: OEC)</li> </ul>				
Aquatic invertebrates: 1,3-DIETHYL-2-THIOUREA : Aquatic plants: 1,3-DIETHYL-2-THIOUREA :	<ul> <li>Harmful to daphnia.</li> <li>EC50, 48 h (Daphnia magna (Water flea)) : 56 mg/l (Method: OECD Test Guideline 2</li> <li>Slightly harmful to algae</li> <li>ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 310 mg/l (Method: OEC)</li> </ul>				
Aquatic invertebrates: 1,3-DIETHYL-2-THIOUREA : Aquatic plants: 1,3-DIETHYL-2-THIOUREA : Microorganisms:	Harmful to daphnia. EC50, 48 h (Daphnia magna (Water flea)) : 56 mg/l (Method: OECD Test Guideline 2 Slightly harmful to algae ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) : 310 mg/l (Method: OEC Guideline 201) NOEC, 28 d (Activated sludge) : 2 mg/l				

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1,3-DIETHYL-2-THIOUREA :	EC10, 21 d (Daphnia magna (Water flea)): 1,67 mg/l (Method: OECD Test Guideline 211, Reproduction inhibition)				
Aquatic plants:					
1,3-DIETHYL-2-THIOUREA :	NOEC r, 72 h (Pseudokirchneriella subcapitata (green algae)): 73 mg/l (Method: OECD Test Guideline 201)				
2.2. Persistence and degradability	<u>/:</u>				
Stability in water:	Not hydrolysable				
Biodegradation (In water):	Not readily biodegradable.				
1,3-DIETHYL-2-THIOUREA :	Not readily biodegradable.: 3 % after 28 d (Method: OECD Test Guideline 301 D)				
2.3. <u>Bioaccumulative potential :</u> Bioaccumulation:	<b>Bioaccumulation is unlikely.</b> Partition coefficient: n-octanol/water: log Kow : 0,57 , at 20 °C				
1,3-DIETHYL-2-THIOUREA :	Partition coefficient: n-octanol/water: log Kow : 0,57 (Method: OECD Test Guideline 107)				
2.4. Mobility in soil - Distribution a	among environmental compartments:				
Vapor pressure: Surface tension:	0,00065 Pa,  25 °C, (Method: A4 Method (D. 92/69/ECC)) 76,1 mN/m  21,5 °C /1.000 mg/l (Method: OECD Test Guideline 115)				
2.5. <u>Results of PBT and vPvB asse</u>	essment :				
	According to REACH regulation, annex XIII, the substance does not meet PBT and vP criteria.	vB			
2.6. Endocrine disrupting propertion	les:				
	Based on the available information, it is not possible to conclude on the endocrine di potential.	sruptor			
2.7. Other adverse effects:	None known.				
ECTION 13: DISPOSAL CONSIDER	RATIONS				
3.1. Waste treatment methods:					
Disposal of product:	Destroy the product by incineration (in accordance with local and national regulations).				
	Destroy packaging by incineration at an approved waste disposal site (in accordance with local and national regulations).				

Not classified as dangerous in the meaning of transport regulations.

# 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:

# 15.2. Chemical safety assessment:

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

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

# Update:

Safety datasheet sections which have been updated:		Туре:
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).