

Product: EKALAND™ DOTG C

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SDS No.: 100010-100 (Version 6.0)

Date 27.04.2022 (Cancel and replace : 26.08.2019)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1. Product identifier
Identification of the mixture: EKALAND™ DOTG C

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 SU 10: Formulation	PC32: Polymer preparations and compounds
Formulation and (re)packing SU 10: Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)	PC32: Polymer preparations and compounds
Manufacture of General Rubber Goods SU11: Manufacture of rubber products	PC0: Cross-linking agent

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, 3, H301
 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:

1,3-Di-o-tolylguanidine

Hazard pictograms:



Signal word:

Danger

Hazard statements:

H301 : Toxic if swallowed.
 H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:P280 : Wear protective gloves and protective clothing and eye protection and face protection.
P273 : Avoid release to the environment.**Response:**

P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Chemical nature of the mixture¹:****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	specific concentration limit, M-Factors, Acute toxicity estimate
1,3-Di-o-tolylguanidine (01-2119974274-31)	202-577-6	97-39-2	98 - 99 %	Acute Tox.3 (Oral); H301 Aquatic Chronic3; H412	
Distillates (petroleum), hydrotreated light paraffinic (01-2119487077-29) (N° ANNEX: 649-468-00-3)	265-158-7	64742-55-8	1 - 2 %	Asp. Tox.1; H304 Nota L: DMSO <3%	

¹: See chapter 14 for Proper Shipping Name²: 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. 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 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 : Hydrogen cyanide (hydrocyanic acid), Temperature exceeding 280 °C:

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.

SECTION 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 (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	0,6 mg/m3 (LT, SE)		1,7 mg/kg (LT, SE)
Consumers	0,15 mg/m3 (LT, SE)	0,085 mg/kg (LT, SE)	0,85 mg/kg (LT, SE)

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

Predicted No Effect Concentration:

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Compartment:	Value:
Fresh water	=0,0568 mg/l
Marine water	=0,00568 mg/l
Water (Intermittent release)	=0,072 mg/l
Effects on waste water treatment plants	=10 mg/l
Fresh water sediment	= 1,78 mg/kg
Marine sediment	= 0,178 mg/kg
Soil	= 0,322 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: Impervious gloves
 Eye/face protection: Tightly fitting safety goggles
 Skin and body protection: 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 (20 °C)
Form: powder
Colour: white, to, pink
Odour: Characteristic and slight
Odour Threshold: No data available.
Melting point : 177,5 °C Active ingredient (OECD Test Guideline 102)
 Not applicable (decomposes on heating)
Flammability:
 Flammability (solid, gas): Non flammable product (Standard A10)
Lower explosion limit : No data available.
Upper explosion limit : No data available.
Flash point: Not relevant
Auto-ignition temperature: Not applicable (decomposes on heating)
Decomposition temperature: Average 195 °C 3 K/min Active ingredient (TGA (Thermal Gravimetric Analysis))
pH: Not applicable
Viscosity, kinematic: Not applicable

Water solubility: 70 mg/l at 20 °C (OECD Test Guideline 105)

Solubility in other solvents: Insoluble in : Benzene
 Soluble in: Acetone
 Soluble in alcohols

Partition coefficient: n-octanol/water: log Kow : 2,9 , at 25 °C (OECD Test Guideline 107)

Vapour pressure: < 0,00001 Pa , at 25 °C Active ingredient (OECD Test Guideline 104)

Density: 0,773 g/cm³ , at 20 °C Molten form

Relative vapour density: No data available.

Particle size: D50 : 0,007 mm
 D10 : 0,033 mm
 D90 : 0,067 mm

9.2. Other information:

Surface tension: 69,9 mN/m at 20,6 °C (OECD Test Guideline 115)

pKA: approx. 10,67 at 20 °C (calculated)

Molecular weight: 239,3 g/mol

Explosive properties:

Explosivity: Not relevant (due to its chemical structure)Not explosive

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

SECTION 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:

Exposure to moisture Remove all sources of ignition.
Store protected from moisture and heat. Protect from light. Keep away from direct sunlight.

10.5. Incompatible materials to avoid:

Strong acids, Oxidizing agents

10.6. Hazardous decomposition products:

Thermal decomposition:

Decomposition temperature: Average 195 °C, Heat rate: 3 K/min
Active ingredient

Nitrogen oxides (NOx), Carbon dioxide (CO2)
Thermal decomposition gives :, Nitrogen oxides (NOx)

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

Acute toxicity:

Inhalation:

No data available:

Ingestion:

• In animals :

Toxic if swallowed.

LD50/Rat: 56 mg/kg (Method: OECD Test Guideline 401)

Dermal:

• In animals :

Slightly harmful in contact with skin.

No mortality/Rat: 2.000 mg/kg (Method: OECD Test Guideline 402)

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

Skin contact:

• In animals :

Non irritating to skin

No skin irritation (After semi-occlusive contact, Rabbit, Exposure time: 24 h)

Eye contact:

• In animals :

Not irritating to the eyes.

No eye irritation (Draize Test, Rabbit)

Respiratory or skin sensitisation:

Inhalation:

No data available.

Skin contact:

• In animals :

Not a skin sensitizer

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
No effect is reported. (Method: OECD Test Guideline 406 Guinea pig maximization test, Guinea pig)

CMR effects :

Mutagenicity:

Results from in vitro and in vivo tests do not lead to considering the product as genotoxic

In vitro

Ames test in vitro: Inactive (Method: OECD Test Guideline 471)
Chromosome aberration test in vitro: Active (Method: OECD Test Guideline 473)
In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

In vivo

Micronucleus test in vivo mouse: Inactive (Method: OECD Test Guideline 474)

Carcinogenicity:

No data available.

Reproductive toxicity:

Fertility:	Based on the available data, the substance is not suspected of having reprotoxic potential.
• In animals :	Absence of toxic effects upon the reproductive system NOAEL (Parental toxicity) : 8 mg/kg bw/day NOAEL (Fertility) : 50 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.
• In animals :	Absence of congenital malformations and embryotoxic effects at non-toxic doses for the mothers NOAEL (Developmental Toxicity) : 10 mg/kg bw/day NOAEL (Maternal Toxicity) : 10 mg/kg bw/day (Method: OECD Test Guideline 414, Rat, By oral route)

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

Inhalation:	Possible irritation of respiratory system
Repeated exposure:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
• In animals :	By oral route: No specific toxic effects 30 mg/kg (Method: OECD Test Guideline 407, Rat, 4 Weeks)

Aspiration hazard:

Not applicable

11.2. **Information on other hazards:** Not relevant**Endocrine disrupting properties:** None known.**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 : Toxic to aquatic life.
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.1. Toxicity :

Fish:	Harmful to fish. LC50, 96 h (Oryzias latipes (medaka)) : 19,3 mg/l (Method: OECD Test Guideline 203)
Aquatic invertebrates:	Toxic to daphnia. EC50, 48 h (Daphnia magna (Water flea)) : 7,19 mg/l (Method: OECD Test Guideline 202, Immobilization)
Aquatic plants:	Toxic to algae. EC50, 72 h (Raphidocelis subcapitata) : 7,2 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)
Microorganisms:	NOEC, 3 h (Activated sludge) : 100 mg/l (Method: OECD Test Guideline 209, Respiration inhibition)

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates:	NOEC, 21 d (Daphnia magna (Water flea)) : 2,84 mg/l (Method: OECD Test Guideline 211, Growth inhibition/Reproduction inhibition)
Aquatic plants:	EC10, 72 h (Raphidocelis subcapitata) : 4,8 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

12.2. Persistence and degradability :

In water:	Not hydrolysable
Stability in water:	: Half-life: > 1 y at 25 °C and pH 4 - 9 Method: OECD Test Guideline 111
Biodegradation (In water):	Not readily biodegradable. Not readily biodegradable.: 1 % after 28 d (Method: OECD Test Guideline 301 C)

12.3. Bioaccumulative potential :**Bioaccumulation:****Bioaccumulation is unlikely.**

Partition coefficient: n-octanol/water: log Kow : 2,9 , at 25 °C (Method: OECD Test Guideline 107)

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

< 0,00001 Pa, 25 °C, Active ingredient, (Method: OECD Test Guideline 104)

Surface tension:

69,9 mN/m 20,6 °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. Endocrine disrupting properties:** None known.**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 ^s *	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
ADR	2811	TOXIC SOLID, ORGANIC, N.O.S. (1,3-Di-o-tolylguanidine)	6.1	6.1	III	no	
ADN	2811	TOXIC SOLID, ORGANIC, N.O.S. ()	6.1	6.1	III	no	
RID	2811	TOXIC SOLID, ORGANIC, N.O.S. (1,3-Di-o-tolylguanidine)	6.1	6.1	III	no	
IATA Cargo	2811	Toxic solid, organic, n.o.s. (1,3-Di-o-tolylguanidine)	6.1	6.1	III	no	
IATA Passenger	2811	Toxic solid, organic, n.o.s. (1,3-Di-o-tolylguanidine)	6.1	6.1	III	no	
IMDG	2811	TOXIC SOLID, ORGANIC, N.O.S. (1,3-Di-o-tolylguanidine)	6.1	6.1	III	no	EmS Number: F-A, S-A

*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, Marketing and Use Restrictions (Regulation 1907/2006/EC): Distillates (petroleum), hydrotreated light paraffinic; Baseoil — unspecified [complex combination of hydrocarbons obtained by trea
EU. REACH, Annex XVII, Appendix 1, 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

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) : Conforms to
 DSL/NDL (CA) : All components of this product are on the Canadian DSL
 IECSC (CN) : Conforms to
 ENCS (JP) : Conforms to
 ISHL (JP) : Conforms to
 KECI (KR) : Conforms to
 PICCS (PH) : Conforms to
 NZIOC (NZ) : Conforms to

SECTION 16: OTHER INFORMATION

Full text of H, EUH-phrases referred to under sections 2 and 3

H301 Toxic if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H412 Harmful to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
1	SECTION 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	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).