

SAFETY DATA SHEET

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

Product: **EKALAND™ CDBC GR**

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SDS No.: 100005-100 (Version 5.0)

Date 16.04.2021 (Cancel and replace : 09.04.2021)

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

1.1. Product identifier

Substance name: EKALAND™ CDBC GR
 REACH Registration Number: 01-2119979535-22-0000
 EC Nr: 237-695-7
 CAS-No.: 13927-71-4

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 polyacrylic SU9: Manufacture of fine chemicals | PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents |
| Manufacture of General Rubber Goods SU11: Manufacture of rubber products | PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents |

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 reachsubstantce@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):

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

EC Nr : 237-695-7
 No labeling elements required.

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 ¹ | EC-No. | CAS-No. | Concentration | Classification REGULATION (EC) No 1272/2008 |
|---|-----------|------------|---------------|--|
| Bis(dibutylldithiocarbamate-S,S')copper | 237-695-7 | 13927-71-4 | 100 % | |

¹: 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

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.

Safe handling advice:

Avoid the formation and deposition of dust. Prohibit all sources of sparks and ignition - Do not smoke.

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.
Polypropylene

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 | 16,5 mg/m3 (LT, SE) 1,44 mg/m3 (LT, SE) | | 0,41 mg/kg (LT, SE) 4,67 mg/kg (LT, SE) |
| Consumers | 2,90 mg/m3 (LT, SE) 0,36 mg/m3 (LT, SE) | 1,67 mg/kg (LT, SE) 0,21 mg/kg (LT, SE) | 0,21 mg/kg (LT, SE) 1,67 mg/kg (LT, SE) |

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

Predicted No Effect Concentration:

| Compartment: | Value: | |
|---|------------------------------|--|
| Fresh water sediment | 3,2 mg/kg dry weight (d.w.) | Negligible or unlikely exposure pathways |
| Fresh water | | |
| Marine sediment | 0,32 mg/kg dry weight (d.w.) | Negligible or unlikely exposure pathways |
| Marine water | | |
| Soil | 5,2 mg/kg dry weight (d.w.) | Negligible or unlikely exposure pathways |
| Water (Intermittent release) | | |
| Effects on waste water treatment plants | | Negligible or unlikely exposure pathways |
| Fresh water sediment | | Pending outcome of testing program |
| Marine sediment | | Pending outcome of testing program |
| Air | | Negligible or unlikely exposure pathways |
| Soil | | Pending outcome of testing program |
| Oral (Secondary Poisoning) | | Negligible or unlikely exposure pathways |

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

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

| | |
|--|---|
| Physical state (20°C): | solid |
| Form: | granular |
| Colour: | black |
| Odour: | none |
| Olfactory threshold: | Not relevant |
| pH: | Not relevant |
| Melting point/range : | 76 - 80 °C (OECD Test Guideline 102) |
| Boiling range : | > 300 °C (OECD Test Guideline 103) |
| Flash point: | Not relevant |
| Evaporation rate: | No data available. |
| Flammability (solid, gas): | |
| Flammability: | The product is not flammable. (Flammability (solids)) |
| Vapour pressure: | < 0,0000001 Pa , at 25 °C (OECD Test Guideline 104) |
| Vapour density: | No data available. |
| Relative density: | No data available. |
| Bulk density: | 670 kg/m ³ |
| Water solubility: | < 0,00001 g/l at 20 °C (OECD Test Guideline 105) |
| Partition coefficient: n-octanol/water: | log Kow : 4,7 , at 20 °C (OECD Test Guideline 107) |
| 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:

Molecular weight: 472 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: No data available.

10.6. Hazardous decomposition products:

Thermal decomposition gives : Carbon oxides, Sulphur oxides
Thermal decomposition gives : Nitrogen oxides (NO_x)

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 toxicological effects:**Acute toxicity:**

Inhalation:

No data available.

Ingestion: **Slightly or not harmful by ingestion**
 • In animals : LD50 Oral/Rat: > 2.000 mg/kg (Method: OECD Test Guideline 401)

Dermal: **Slightly or not harmful in contact with skin**
 • In animals : No mortality/Rabbit: 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)

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: **Not a skin sensitizer**
 • In animals : Not a skin sensitizer (Method: OECD Test Guideline 429 LLNA: Local Lymph Node Assay, Mouse)

CMR effects :

Mutagenicity: **Results from tests do not lead to considering the product as genotoxic**

In vitro

Ames test in vitro: Inactive (Method: OECD Test Guideline 471)
 Tests for chromosome aberrations in vitro on mammalian cells: Inactive (Method: OECD Test Guideline 473)
 In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

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): 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 data, the substance is not suspected of having developmental toxicity potential.**
 • In animals : Absence of toxic effects for foetal development
 NOAEL (Developmental Toxicity): 1.000 mg/kg bw/day
 NOAEL (Maternal Toxicity): 1.000 mg/kg bw/day
 (Method: OECD Test Guideline 414, Rat, By oral route)

Specific target organ toxicity :

Single exposure :

Inhalation: Dust 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
 NOAEL= 1.000 mg/kg (Method: OECD Test Guideline 422, Rat, 28 d)

Aspiration hazard:

Not applicable

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.

12.1. Acute toxicity :

Aquatic plants: **No effect up to the limit of solubility**
 ErC50, 72 h (Pseudokirchneriella subcapitata (green algae)) (Method: OECD Test Guideline 201) No effect up to the limit of solubility

Microorganisms: NOEC, 28 d (Activated sludge) : > 100 mg/l

Sediment toxicity:

28 d (Lumbriculus variegatus): 320 mg/kg dw (Method: OECD Test Guideline 225)

Aquatic toxicity / Long term toxicity:**Fish:** NOEC, 32 d (Pimephales promelas (fathead minnow)) (Method: OECD Test Guideline 210) No effect up to the limit of solubility**Aquatic invertebrates:** NOEC, 21 d (Daphnia magna (Water flea)) (Method: OECD Test Guideline 211) No effect up to the limit of solubility**Non aquatic toxicity / Acute toxicity :****Toxicity to soil dwelling organisms:**NOEC, 28 d (Eisenia fetida (earthworms)) : \geq 524 mg/kg (Soil dw) (Method: OECD Test Guideline 222, reproduction)NOEC, 28 d (Microorganisms) : \geq 1.572 mg/kg (Soil dw) (Method: OECD Test Guideline 216)**Terrestrial plants:**NOEC, 28 d (Triticum aestivm (wheat)) : \geq 51,2 mg/kg (Method: OECD Test Guideline 208)**12.2. Persistence and degradability :****Biodegradation (In water):** **Not readily biodegradable.**
Not readily biodegradable.: 0 % after 28 d (Method: OECD Test Guideline 301 F)**Biodegradation (In sediment):** **Biodegradable under aerobic conditions****12.3. Bioaccumulative potential :****Bioaccumulation:** **Potentially bioaccumulable.**
Partition coefficient: n-octanol/water: log Kow : 4,7 , at 20 °C (Method: OECD Test Guideline 107)**12.4. Mobility in soil - Distribution among environmental compartments:****Vapor pressure:** < 0,0000001 Pa, 25 °C, (Method: OECD Test Guideline 104)**Absorption / desorption:** log Koc: 6,25 (Method: calculated)**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

Not classified as dangerous in the meaning of transport regulations.

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:

| | |
|-------------|---|
| EINECS: | Conforms to |
| TSCA: | Conforms to |
| DSL: | This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list. |
| IECSC (CN): | Conforms to |
| ENCS (JP): | Conforms to |
| ISHL (JP): | Conforms to |
| KECI (KR): | Conforms to |
| PICCS (PH): | Does not conform |
| AICS: | Conforms to |
| NZIOC: | Conforms to |

16. OTHER INFORMATION

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

Update:

| Safety datasheet sections which have been updated: | | Type: |
|--|---|-----------|
| 2 | 2. HAZARDS IDENTIFICATION, GHS-Labeling | Revisions |
| 3 | 3. COMPOSITION/INFORMATION ON INGREDIENTS | Revisions |
| 8 | 8. EXPOSURE CONTROLS/PERSONAL PROTECTION | Revisions |
| 11 | 11. TOXICOLOGICAL INFORMATION | Revisions |
| 12 | 12. ECOLOGICAL INFORMATION | 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).

