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Substance key: SXR021392 Revision Date: 07/21/2015

Version: 3 - 1 / USA Date of printing: 08/25/2015

### **SECTION 1. IDENTIFICATION**

Identification of the Clariant Produkte (Deutschland) GmbH

**company:** Frankfurt am Main, 65926

Telephone No.: +49 69 305 18000

Information of the substance/preparation:

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: LICOWAX KSL FL

Material number: 105203

**Primary product use:** Industrial uses are not restricted by REACH legislation.

Chemical family: Ester of Montanic Acid, a wax acid mixture approx C24-C34

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **GHS Classification**

Not a hazardous substance or mixture.

### **GHS Label element**

Not a hazardous substance or mixture.

#### Other hazards

According to the present state of knowledge, provided that this product is handled correctly, there is no known danger to humans.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Hazardous components**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)., None under Title III of SARA

### **SECTION 4. FIRST AID MEASURES**

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.

Give oxygen or artificial respiration if needed. Get immediate medical advice/ attention.

Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin

irritation occurs, seek medical attention.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.



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Get medical attention immediately if irritation develops and

: The possible symptoms known are those derived from the

persists.

: If swallowed, DO NOT induce vomiting. If swallowed

> Do not give anything to drink. Call a physician immediately.

Most important symptoms and effects, both acute and

delayed

labelling (see section 2).

No additional symptoms are known.

Notes to physician : None known.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry powder

Foam

Carbon dioxide (CO2)

Water mist

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: None known.

Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire

conditions.

Further information : Exercise caution when fighting any chemical fire. Use NIOSH

approved self-contained breathing apparatus and full

protective clothing.

Special protective equipment

for firefighters

: Self-contained breathing apparatus

Impervious clothing Protective helmets

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

: Wear suitable protective equipment.

Collect into suitable container. Electrical grounding of equipment is required when handling powder to prevent

possible dust explosion.

Environmental precautions : The product should not be allowed to enter drains, water

courses or the soil.



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Methods and materials for containment and cleaning up

: Take up mechanically

#### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against

fire and explosion

: Take measures to prevent the build up of electrostatic charge.

Advice on safe handling : Avoid dust formation. Keep away from sources of ignition.

Lead off electrostatic charges.

Avoid inhalation, ingestion and contact with skin and eyes.

Wash thoroughly after handling.

Technical : Store in original container.

measures/Precautions Keep container tightly closed.

Store in a cool, dry, well-ventilated area.

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Components with workplace control parameters

No level has been established by OSHA, NIOSH, ACGIH.

Engineering measures : Local ventilation recommended - mechanical ventilation may

be used.

### Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following

manufacturer's recommendations where dust or fume may be

generated.

Hand protection

Remarks : Butyl Rubber, PVC Or Neoprene.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat, drink or smoke.

Use protective skin cream before handling the product.

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : flakes



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Particle size : not tested.

Colour : yellow

Odour : not specified

Odour Threshold : cannot be determined

pH : approx. 7

(20 ℃)saturated aqueous solution

Melting point : approx. 77 ℃

Method: DSC

Boiling point : Decomposes below the boiling point.

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : The product is not flammable.

Method: 92/69/EC (L383) A.10 \* flammability (solids)

GLP: yes

Upper explosion limit : not tested.

Lower explosion limit : not tested.

Combustion number: BZ1 Does not catch fire

Method: VDI 2263, ESCIS, Vol. 1

Vapour pressure : 0.043 mPa (25 ℃)

Method: 92/69/EEC, A.4.

GLP: yes

Relative vapour density : Not applicable

Relative density : 1.02 (20 ℃)

Method: ISO 1183

Density : 1.02 g/cm 3 (20 C)

Method: ISO 1183

Solubility(ies)

Water solubility : 24 mg/l (20 ℃)

pH: 7

Method: OECD Test Guideline 105

Solubility in other solvents : not tested.

Partition coefficient: n- : log Pow: 0.9 (20 ℃)



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octanol/water pH: 7

Method: other (calculated)

Auto-ignition temperature : Not applicable

Decomposition temperature : > 180  $^{\circ}$ C

Method: DSC

Viscosity

Viscosity, dynamic : approx. 30 mPa.s (100 ℃)

Method: DIN 53019

Viscosity, kinematic : Not applicable

Explosive properties : There are no chemical groups associated with explosive

properties present in the molecule.

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

There are no chemical groups associated with oxidising

properties present in the molecule. not oxidizing

Surface tension : Based on chemical structure, no surface activity is expected

or can be predicted.

Sublimation point : Not applicable

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Potential dust explosion hazard.

The substance or mixture does not emit flammable gases in

contact with water.
Not corrosive to metals

Conditions to avoid : Keep away from heat.

Keep away from flames and sparks.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: When handled and stored appropriately, no dangerous

decomposition products are known

### **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Eye contact Skin contact Inhalation



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### **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Acute inhalation toxicity : Remarks: not required

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

GLP: yes

#### Skin corrosion/irritation

### **Product:**

Species: Rabbit Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

## Serious eye damage/eye irritation

### Product:

Species: rabbit eye Result: No eye irritation Exposure time: 24 h

Method: OECD Test Guideline 405

GLP: yes

## Respiratory or skin sensitisation

# **Product:**

Test Type: Mouse local lymphnode assay

Exposure routes: Dermal

Species: Mouse

Method: OECD Test Guideline 429

Result: non-sensitizing

GLP: yes

# Germ cell mutagenicity

## **Product:**

Genotoxicity in vitro : Test Type: Ames test

Species: Salmonella typhimurium Concentration: 4 - 10000 µg/plate Metabolic activation: with and without Method: OECD Test Guideline 471

Result: negative

GLP: yes



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: Test Type: Ames test Species: Escherichia coli

Concentration: 4 - 10000 µg/plate Metabolic activation: with and without Method: OECD Test Guideline 471

Result: negative GLP: yes

: Test Type: Chromosome Aberration Test

Species: V79 cells (embryonic lung fibroblasts) of the Chinese

hamster

Concentration: 0,3 - 35 µg/ml Metabolic activation: with and without Method: OECD Test Guideline 473

Result: negative GLP: yes

Remarks: By analogy with a product of similar composition

: Test Type: HGPRT assay

Species: V79 cells (embryonic lung fibroblasts) of the Chinese

hamster

Concentration: 4,4 - 560  $\mu$ f/ml Metabolic activation: with and without Method: OECD Test Guideline 476

Result: negative GLP: yes

Remarks: By analogy with a product of similar composition

Germ cell mutagenicity -

Assessment

: It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

### Carcinogenicity

**Product:** 

Carcinogenicity -Assessment : Animal testing did not show any carcinogenic effects.

IARC Not listed

OSHA Not listed

NTP Not listed

### Reproductive toxicity

**Product:** 

Effects on fertility : Test Type: One generation study

Species: Rat

Sex: male and female
Dose: 10 - 100 - 1000 mg/kg
Frequency of Treatment: once daily

Sprague-Dawley

Application Route: oral (gavage)



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Group: yes

NOAEL: 1,000 mg/kg, F1: 1,000 mg/kg, Method: OECD 421

GLP: yes

Effects on foetal : Species: Rat

development Application Route: oral (gavage)

Exposure time: females day 6-19 post coitum

Dose: 50 - 250 - 1000 mg/kg

Group: yes 1,000 mg/kg 1,000 mg/kg

Number of exposures: once daily Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity -

Assessment

: No teratogenic effects to be expected.

No reproductive toxicity to be expected.

# STOT - single exposure

#### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

### **Product:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Repeated dose toxicity

## **Product:**

Species: Rat, male and female

NOAEL: 1,000 mg/kg

Application Route: oral (gavage)

Exposure time: >70 d

Number of exposures: once daily Dose: 10 - 100 -1 000 mg/kg

Group: yes

Method: OECD Test Guideline 422

GLP: yes

Remarks: By analogy with a product of similar composition

Application Route: Inhalation Method: Repeated dose toxicity

Remarks: The study is not necessary from a scientific perspective.

Application Route: Dermal



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Method: Repeated dose toxicity

Remarks: The study is not necessary from a scientific perspective.

## **Aspiration toxicity**

### **Product:**

No aspiration toxicity classification

#### Experience with human exposure

**Product:** 

**General Information** : The possible symptoms known are those derived from the

labelling (see section 2).

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

**Product:** 

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 g/l

> Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: ves

Remarks: The details of the toxic effect relate to the nominal

concentration.

LC0 (Danio rerio (zebra fish)): 10 g/l

Exposure time: 96 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 203

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10 g/l

Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 202

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

NOEC (Daphnia magna (Water flea)): 10 g/l

Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: OECD Test Guideline 202

GLP: yes



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Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to algae : EC10 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 320 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

EC20 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 320 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 320 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

EC10 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): 100 - 320 mg/l

End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

EC20 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 320 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes



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Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

EC50 (Desmodesmus subspicatus (Scenedesmus

subspicatus)): > 320 mg/l End point: Biomass Exposure time: 72 h Test Type: static test Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to fish (Chronic

toxicity)

: Remarks: not required

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): approx. 100 mg/l

Exposure time: 21 d

End point: Reproduction rate Test Type: semi-static test Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal

concentration.

LOEC (Daphnia magna (Water flea)): approx. > 100 mg/l

Exposure time: 21 d

End point: Reproduction rate Test Type: semi-static test Analytical monitoring: no

Method: OECD Test Guideline 211

GLP: yes

Remarks: By analogy with a product of similar composition

The details of the toxic effect relate to the nominal

concentration.

Toxicity to bacteria : EC10 (activated sludge, domestic): > 10 g/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h Test Type: aquatic Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: ves

Remarks: The details of the toxic effect relate to the nominal

concentration.

: EC50 (activated sludge, domestic): > 10 g/l End point: Bacteria toxicity (respiration inhibition)



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Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: ves

Remarks: The details of the toxic effect relate to the nominal

concentration.

: NOEC (activated sludge, domestic): 10 g/l End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h
Test Type: aquatic
Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: The details of the toxic effect relate to the nominal

concentration.

Toxicity to soil dwelling

organisms

: Test Type: artificial soil

NOEC (Eisenia fetida (earthworms)): 1,000 mg/kg

Exposure time: 14 d End point: mortality

Method: OECD Test Guideline 207

GLP: ves

Remarks: By analogy with a product of similar composition

Test Type: artificial soil

LOEC (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d End point: mortality

Method: OECD Test Guideline 207

GLP: yes

Remarks: By analogy with a product of similar composition

Remarks: The study is not necessary from a scientific

perspective.

Plant toxicity : Remarks: The study is not necessary from a scientific

perspective.

Sediment toxicity : Remarks: not tested.

Toxicity to terrestrial

organisms

:

## Persistence and degradability

#### **Product:**

Biodegradability : Test Type: aerobic

Inoculum: activated sludge, domestic, non-adapted

Concentration: 4 mg/l BOD in % of theoretical OD Result: Not readily biodegradable.



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Biodegradation: 54 % (BOD in % of theoretical OD)

Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

Physico-chemical

removability

: Remarks: The product is not readily biodegradable according

to OECD criteria but is inherently biodegradable.

Stability in water : Remarks: Not applicable

**Bioaccumulative potential** 

Product:

Bioaccumulation : Remarks: Low potential for bioaccumulation (log Pow < 3).

Mobility in soil

**Product:** 

Distribution among

environmental compartments

: Remarks: Not expected to adsorb on soil.

Other adverse effects

**Product:** 

Environmental fate and

pathways

: Remarks: not available

Results of PBT and vPvB

assessment

: The substance is not identified as a PBT or as a vPvB

substance.

Additional ecological

information

: The product should not be allowed to enter drains, water

courses or the soil.

**SECTION 13. DISPOSAL CONSIDERATIONS** 

**Disposal methods** 

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste from residues

: No -- Not as sold.

: Dispose of spilled or waste product, contaminated soil and other contaminated materials in licensed landfill or treatment

facility in accordance with all local, state, and federal

regulations.

Contaminated packaging : Packaging that cannot be cleaned should be disposed of as

product waste

**SECTION 14. TRANSPORT INFORMATION** 



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DOT not restricted

IATA not restricted

IMDG not restricted

#### **SECTION 15. REGULATORY INFORMATION**

### **EPCRA - Emergency Planning and Community Right-to-Know Act**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This product does not contain any toxic chemical listed under

Section 313 of the Emergency Planning and Community

Right-To-Know Act of 1986.

#### **Clean Water Act**

Contains no known priority pollutants at concentrations greater than 0.1%.

### The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory

#### **Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

# **SECTION 16. OTHER INFORMATION**

#### **Further information**

On the basis of an extensive test program, which had to be submitted to the competent authority on the occasion of the Notification of the substance in the European Community, this product was found to be toxicologically not dangerous within the meaning of the EC Directives.

Handle with care. Organic dusts have the potential to be explosive with static spark or flame initiation.



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