

LICOWAX LP FL

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Substance key: SXR021401

Revision Date: 04/23/2015

Version : 3 - 0 / USA

Date of printing :05/19/2015

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
Information of the substance/preparation:	Product Safety 1-704-331-7710
Emergency tel. number:	+1 800-424-9300 CHEMTREC

Trade name: LICOWAX LP FL**Material number:** 105204**CAS number:** 68476-03-9**Primary product use:** Industrial uses are not restricted by REACH legislation.**Chemical family:** Montanwax acids, approx. C24-C34

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Combustible dust :

GHS Label element

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

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

Chemical Name	CAS-No.	Concentration (%)
Fatty acids, montan-wax	68476-03-9	100

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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.
Get medical attention immediately if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Do not give anything to drink.
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : None known.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Foam
Water spray jet
Dry powder
- Unsuitable extinguishing media : High volume water jet
Carbon dioxide (CO₂)
- Specific hazards during firefighting : None known.
- 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

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.
Wearing appropriate personal protective equipment, contain spill and collect into a suitable container.
Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
- 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.

Combustible material
- 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 measures/Precautions : Store in original container.
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.

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- 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
- Colour : white yellowish
- Odour : not specified
- Odour Threshold : cannot be determined
- pH : approx. 7, (20 °C)saturated aqueous solution
- Melting point : approx. 80 °C
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.
- Vapour pressure : 3.3 mPa (25 °C)
Method: 92/69/EEC, A.4.
GLP: yes
- Relative vapour density : Not applicable
- Relative density : 1.01 (20 °C)
Method: ISO 1183
- Density : 1.01 g/cm³ (20 °C)
Method: ISO 1183
- Solubility(ies)
Water solubility : 15 mg/l (20 °C)

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	pH: 7 Method: OECD Test Guideline 105
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: log Pow: approx. 1.2 (20 °C) pH: 7 Method: other (calculated)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 140 °C Method: DSC
Viscosity	
Viscosity, dynamic	: approx. 20 mPa.s (100 °C) 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

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
Skin contact
Inhalation

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat, female): > 15,000 mg/kg
Method: OECD Test Guideline 401
GLP: no data available

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
Remarks: By analogy with a product of similar composition

Skin corrosion/irritation**Product:**

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes
Remarks: By analogy with a product of similar composition

Serious eye damage/eye irritation**Product:**

Species: rabbit eye
Result: No eye irritation
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: yes
Remarks: By analogy with a product of similar composition

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
Remarks: By analogy with a product of similar composition

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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
Remarks: By analogy with a product of similar composition
- : 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
Remarks: By analogy with a product of similar composition
- : 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
- : Test Type: HGPRT assay
Species: V79 cells (embryonic lung fibroblasts) of the Chinese hamster
Concentration: 4,4 - 560 µf/ml
Metabolic activation: with and without
Method: OECD Test Guideline 476
Result: negative
GLP: yes

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

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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
70 d
70 d
Group: yes
NOAEL: 1,000 mg/kg,
F1: 1,000 mg/kg,
Method: OECD Test Guideline 422
GLP: yes

Effects on foetal development : Species: Rat
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
Remarks: By analogy with a product of similar composition

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

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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

Application Route: Inhalation
Method: Repeated dose toxicity
Remarks: The study is not necessary from a scientific perspective.

Application Route: Dermal
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: yes
Remarks: By analogy with a product of similar composition
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: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.

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- Toxicity to daphnia and other aquatic invertebrates : 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: By analogy with a product of similar composition
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
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae : EC10 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 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)): > 100 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)): > 100 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.

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EC10 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 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)): > 100 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.

EC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): > 100 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

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- 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: yes
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)
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.
- : 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: yes
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.

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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: 15 mg/l
CO2 formation in % of theoretical value
Result: Not readily biodegradable.
Biodegradation: 8 % (CO2 formation in % of theoretical value)
Exposure time: 28 d
Method: OECD Test Guideline 301B
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.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- RCRA - Resource Conservation and Recovery 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

- 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

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AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), 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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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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