

## LICOMONT CAV 102 FINE GRAIN

Page 1

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

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## SECTION 1. IDENTIFICATION

<b>Identification of the company:</b>	Clariant Produkte (Deutschland) GmbH Frankfurt am Main, 65926 Telephone No.: +49 69 305 18000
<b>Information of the substance/preparation:</b>	Product Safety 1-704-331-7710
<b>Emergency tel. number:</b>	+1 800-424-9300 CHEMTREC

<b>Trade name:</b>	LICOMONT CAV 102 FINE GRAIN
<b>Material number:</b>	133104
<b>CAS number:</b>	68308-22-5
<b>Chemical family:</b>	Reaction mass of montan wax and fatty acids, montan-wax, calcium salts and fatty acids, montan wax

## 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, calcium salts	68308-22-5	<= 100

## SECTION 4. FIRST AID MEASURES

General advice : No toxic effects observed in human beings.

## LICOMONT CAV 102 FINE GRAIN

Page 2

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

- 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 : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or 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.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Water spray jet  
Dry powder
- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)
- Specific hazards during firefighting : None known.
- Further information : Electrical grounding of equipment is required to prevent possible dust explosion. Emits toxic fumes under fire conditions.
- Special protective equipment for firefighters : Impervious clothing  
Protective helmets  
Self-contained breathing apparatus

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, : Wear suitable protective equipment.

**LICOMONT CAV 102 FINE GRAIN**

Page 3

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

protective equipment and emergency procedures	: 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.
Methods and materials for containment and cleaning up	: Take up mechanically and dispose of

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	: Risk of dust 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 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**

**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 : Nitrile rubber gloves.

Eye protection : Safety glasses or chemical splash goggles.

Skin and body protection : Wear suitable protective equipment.

Protective measures : Avoid contact with eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

## LICOMONT CAV 102 FINE GRAIN

Page 4

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: Fine granules
Particle size :	< 2,000 µm Method : Sieve analysis
	approximately 120 µm Method : ISO 13320-1 Median value
Colour	: light yellow
Odour	: not specified
Odour Threshold	: cannot be determined
pH	: approx. 10 Method: DIN EN 1262 Determined as a 10% suspension in distilled water.
Melting point	: approx. 82 °C Method: DSC GLP: no
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
Vapour pressure	: 0.00022 mPa (20 °C) Method: OECD Test Guideline 104 GLP: yes
	0.00067 mPa (25 °C) Method: OECD Test Guideline 104 GLP: yes
	0.000093 Pa (50 °C) Method: OECD Test Guideline 104

## LICOMONT CAV 102 FINE GRAIN

Page 5

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

GLP: yes

Relative vapour density	: Not applicable
Relative density	: 1.036 (23 °C) Method: ISO 1183
Density	: 1.036 g/cm <sup>3</sup> (23 °C) Method: ISO 1183 GLP: no
Solubility(ies) Water solubility	: 27 mg/l (20 °C) Method: OECD Test Guideline 105 GLP: no
Solubility in other solvents	: not tested.
Partition coefficient: n- octanol/water	: log Pow: < 0 (20 °C) Method: OECD Test Guideline 107 GLP: yes
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if used as directed.  approx. 165 °C Heating rate : 10 K/min Method: DSC
Viscosity Viscosity, dynamic	: Not applicable
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	: not required
Sublimation point	: Not applicable

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**SECTION 10. STABILITY AND REACTIVITY**

## LICOMONT CAV 102 FINE GRAIN

Page 6

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. 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

**Acute toxicity****Product:**

Acute oral toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 401 GLP: yes Remarks: By analogy with a product of similar composition
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

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

## LICOMONT CAV 102 FINE GRAIN

Page 7

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

Species: rabbit eye  
Result: No eye irritation  
Exposure time: 72 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

**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: 1,2 - 300 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: 3 - 1000 µg/ml

## LICOMONT CAV 102 FINE GRAIN

Page 8

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

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  
49 - 52 d  
14 d  
Group: yes  
NOAEL: 1,000 mg/kg,  
F1: 1,000 mg/kg,  
Method: OECD 421  
GLP: yes  
Remarks: By analogy with a product of similar composition

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.



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Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

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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  
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).

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

**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: The details of the toxic effect relate to the nominal concentration.
- NOEC (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.
- Toxicity to daphnia and other aquatic invertebrates : EC10 (Daphnia magna (Water flea)): > 10.1 - 100 mg/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.
- 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.
- 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: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal concentration.

---

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

---

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: By analogy with a product of similar composition  
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: By analogy with a product of similar composition  
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: By analogy with a product of similar composition  
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  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: By analogy with a product of similar composition  
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

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

Analytical monitoring: yes  
 Method: OECD Test Guideline 201  
 GLP: yes  
 Remarks: By analogy with a product of similar composition  
 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 : NOEC (activated sludge, domestic): 1,000 mg/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: By analogy with a product of similar composition  
 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

## LICOMONT CAV 102 FINE GRAIN

Page 13

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

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.

**Persistence and degradability****Product:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge, domestic, non-adapted  
Concentration: 1 mg/l  
BOD in % of theoretical OD  
Result: Not readily biodegradable.  
Biodegradation: 26.1 % (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.

## LICOMONT CAV 102 FINE GRAIN

Page 14

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

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**

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:**

## LICOMONT CAV 102 FINE GRAIN

Page 15

---

Substance key: 000000010757

Revision Date: 07/10/2015

Version : 3 - 9 / USA

Date of printing :08/25/2015

---

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)

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**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.

Revision Date : 07/10/2015

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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