

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 1

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 500 East Morehead Street Charlotte, NC, 28202 Telephone No.: +1 704 331 7000
	Information of the substance/preparation: Product Stewardship, +1-704-331-7710 e-mail: SDS.NORAM@clariant.com
	Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: Licowax C Micropowder PM

Material number: 107075

CAS number: 110-30-5

Primary product use: Additive

Chemical family: Bissteauroylethylenediamide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Combustible dust

Other hazards

No additional hazards are known except those derived from the labelling.

GHS label elements

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.
P233 Keep container tightly closed.
P243 Take action to prevent static discharges.
Prevent dust accumulations to minimize explosion hazard.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 2

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Substance name : Bissteaoylethylenediamide

CAS-No. : 110-30-5

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
N,N'-Ethylenedi(stearamide)	110-30-5*	>= 80 - <= 100	TSC

* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

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 with soap and water. Contact physician if irritation or other symptoms occur. If hot wax strikes skin, drench or immerse the area in water to assist cooling. Do not remove wax from a burn after it cools. Consult a physician.
- 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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water mist
Foam
Dry powder
Carbon dioxide (CO2)
- Unsuitable extinguishing : High volume water jet

Licowax C Micropowder PM

Page 3

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

media

Specific hazards during firefighting : Avoid dust formation.
Take measures to prevent the build up of electrostatic charge.

Further information : Firefighters should wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Use water spray to cool exposed containers. Avoid use of a direct full pressure stream of water as molten wax may be spread to ignition sources or carry fire to other flammable materials. Use a water fog or foam to control fire.

Special protective equipment for firefighters : Self-contained breathing apparatus
Wear personal protective equipment.

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.

Methods and materials for containment and cleaning up : Take up mechanically

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Keep away sources of ignition.
Dust may form explosive mixture in air.
Electrical equipment should be protected to the appropriate standard.

Take measures to prevent the build up of electrostatic charge.

Observe the general rules of industrial fire protection

The product is a fine dust. Consequently, the product and/or its packaging material can become electrostatically charged during emptying of the package, or processing of the product. Therefore, when handling such materials in areas where the existence of an explosive atmosphere cannot be completely excluded, it is necessary to take strict precautions to prevent explosions caused by electrostatic charging or discharging. This requirement applies also to the use or processing of

Licowax C Micropowder PM

Page 4

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

products which are themselves not flammable. The regulations and references of the German BG Guideline 132 on the avoidance of danger of ignition due to electrostatic charges, and those of national regulations of other countries must be considered. The actual measures taken should depend on the processing operations, the conditions of the surrounding area, and the accepted safety procedures of the plant handling the product.

- 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.
- Further information on storage conditions : 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**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
N,N'-Ethylenedi(stearamide)	110-30-5	TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH

- Engineering measures** : Ensure adequate ventilation, especially in confined areas.

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.

Licowax C Micropowder PM

Page 5

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Protective measures : When working with hot material, avoid contact with skin.

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 : fine powder

Colour : white

Odour : not specified

Odour Threshold : not determined

pH : Not applicable

Drop point : approx. 288 °F / 142 °C
Method: DIN/ISO 2176

Melting point : 291 °F / 144 °C
Method: DSC

Boiling point : Decomposes below the boiling point.

Flash point : Not applicable

Evaporation rate : not determined

Flammability (solid, gas) : not determined

Self-ignition : Method: Expert judgement
The substance or mixture is not classified as pyrophoric. The product melts below 160 °C. Therefore, no further testing of self-heating properties is required.

Burning number : not tested.

Upper explosion limit / upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapour pressure : 0.000023 Pa (68 °F / 20 °C)
Method: OECD Test Guideline 104

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 6

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

GLP: yes

0.000042 Pa (77 °F / 25 °C)
Method: OECD Test Guideline 104
GLP: yes

0.00062 Pa (122 °F / 50 °C)
Method: OECD Test Guideline 104
GLP: yes

Relative vapour density : Not applicable

Density : approx. 1.00 g/cm³ (73 °F / 23 °C)
Method: ISO 1183

Solubility(ies)
Water solubility : insoluble (68 °F / 20 °C)

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : not tested.

Decomposition temperature : > 392 °F / > 200 °C
Method: DTA
No decomposition if used as directed.

Viscosity
Viscosity, dynamic : approx. 10 mPa.s (302 °F / 150 °C)
Method: DIN 53019

Viscosity, kinematic : Not applicable

Explosive properties : no data available

Dust deflagration index (Kst) : 342 m.b./s
Method: EN 14034

Dust explosion class : St3

Minimum ignition energy : < 1 mJ
Method: Mike 3 apparatus
with inductive electrical resistance

< 1 mJ
Method: Mike 3 apparatus
without inductive electrical resistance

Particle size : approximately 15.1 µm
Method: Laser diffraction with dispersion in dry air.
Median value

Licowax C Micropowder PM

Page 7

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable
Possibility of hazardous reactions	: Risk of dust explosion. The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals
Conditions to avoid	: None known.
Incompatible materials	: no data available
Hazardous decomposition products	: Possible in traces: Nitrogen oxides (NO _x)

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

Eye contact
Skin contact
Inhalation

Acute toxicity

Not classified

Product:

Acute oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat, male and female): > 6.3 mg/l Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rabbit, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Components:**N,N'-Ethylenedi(stearamide):**

Acute oral toxicity	: LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat, male and female): > 6.3 mg/l Test atmosphere: dust/mist

Licowax C Micropowder PM

Page 8

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Components:**N,N'-Ethylenedi(stearamide):**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Components:**N,N'-Ethylenedi(stearamide):**

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Respiratory or skin sensitisation**Skin sensitisation**

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Not classified

Product:

Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Licowax C Micropowder PM

Page 9

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Components:**N,N'-Ethylenedi(stearamide):**

Species : Mouse
Method : OECD Test Guideline 429
Result : Not a skin sensitizer.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Components:**N,N'-Ethylenedi(stearamide):**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Test Type: Mammalian cell gene mutation assay
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 10

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity

Not classified

Product:

Carcinogenicity - Assessment : No information available.

Components:

N,N'-Ethylenedi(stearamide):

Carcinogenicity - Assessment : No information available.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified

Product:

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: \geq 1,000 mg/kg body weight
Method: OECD Test Guideline 414

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Components:

N,N'-Ethylenedi(stearamide):

Effects on foetal development : Test Type: Pre-natal
Species: Rat
Strain: Sprague-Dawley
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: \geq 1,000 mg/kg body weight
Method: OECD Test Guideline 414

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 11

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Based on available data, the classification criteria are not met.

Product:

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

Components:

N,N'-Ethylenedi(stearamide):

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

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Product:

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

Components:

N,N'-Ethylenedi(stearamide):

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

Repeated dose toxicity

Product:

Species : Rat, male and female
NOEL : ≥ 1000 mg/kg bw/day
Application Route : oral (gavage)
Method : OECD Test Guideline 408

Components:

N,N'-Ethylenedi(stearamide):

Species : Rat, male and female
NOEL : ≥ 1000 mg/kg bw/day
Application Route : oral (gavage)
Method : OECD Test Guideline 408

Aspiration toxicity

Not classified

Licowax C Micropowder PM

Page 12

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Product:

no data available

Components:**N,N'-Ethylenedi(stearamide):**

no data available

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 (*Oryzias latipes* (Orange-red killifish)): 0.027 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.0022 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (algae)): 0.053 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (*Daphnia magna* (Water flea)): 0.0056 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 13

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): $\geq 1,000$ mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222

Sediment toxicity : NOEC: ≥ 1000 mg/kg dry weight (d.w.)
Test Type: static test
Sediment: Artificial sediment
Exposure duration: 28 d
Method: OECD Test Guideline 218

Components:

N,N'-Ethylenedi(stearamide):

Toxicity to fish : LC50 (*Oryzias latipes* (Orange-red killifish)): 0.027 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0.0022 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
Remarks: No toxicity at the limit of solubility

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (algae)): 0.053 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: No toxicity at the limit of solubility

Toxicity to fish (Chronic toxicity) : Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (*Daphnia magna* (Water flea)): 0.0056 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility

Toxicity to microorganisms : EC50 (activated sludge): $> 1,000$ mg/l
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): $\geq 1,000$ mg/kg
Exposure time: 56 d
Method: OECD Test Guideline 222

Sediment toxicity : NOEC: ≥ 1000 mg/kg dry weight (d.w.)
Test Type: static test
Sediment: Artificial sediment
Exposure duration: 28 d
Method: OECD Test Guideline 218

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 14

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Persistence and degradability

Product:

Biodegradability : Test Type: aerobic
Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 5.5 % (Carbon dioxide (CO₂))
Exposure time: 28 d
Method: OECD Test Guideline 301B

Components:

N,N'-Ethylenedi(stearamide):

Biodegradability : aerobic
Inoculum: activated sludge
Carbon dioxide (CO₂)
Result: Not readily biodegradable.
Biodegradation: 5.5 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

N,N'-Ethylenedi(stearamide):

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : Remarks: Not applicable

Mobility in soil

Product:

Distribution among environmental compartments : log K_{oc}: 8.6 - 8.91
Method: calculated

Components:

N,N'-Ethylenedi(stearamide):

Distribution among environmental compartments : log K_{oc}: 8.6 - 8.91
Method: calculated

Other adverse effects

Product:

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 15

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Additional ecological information : no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code : NONE

Waste from residues : 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

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 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Combustible dust

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

SAFETY DATA SHEET

Licowax C Micropowder PM

Page 16

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

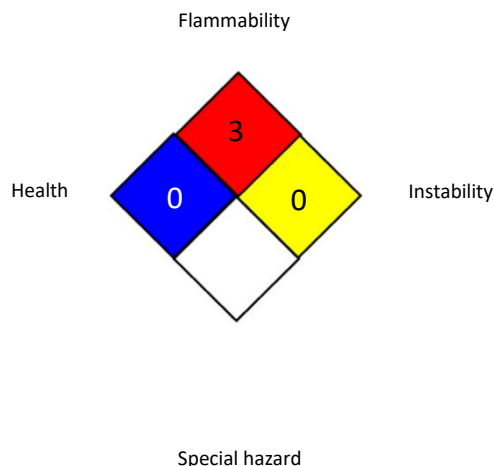
TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

DSL : All components of this product are on the Canadian DSL

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -

Licowax C Micropowder PM

Page 17

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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 : 08/06/2025

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet

SAFETY DATA SHEET



Licowax C Micropowder PM

Page 18

Substance key: SXR021344

Revision Date: 08/06/2025

Version : 4 - 0 / USA

Date of printing :08/27/2025

information before handling any of these products. For additional information, please contact Clariant.

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