

LICOWAX PED 521 GR

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Substance key: SXR021311

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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 PED 521 GR
Material number: 105216
CAS number: 68891-61-2
Primary product use: Additive
Chemical family: 1-Propene, polymers, polymer with ethene, oxidized

SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Combustible dust

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.
P243 Take precautionary measures against static discharge.
P233 Keep container tightly closed.

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : 1-Propene, polymers, polymer with ethene, oxidized
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Components

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

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 conscious, give the victim plenty of water to drink.
Consult a physician.
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No symptoms known currently.
No hazards known at this time.
- Notes to physician : Treat symptomatically.

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

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Impervious clothing
Protective helmets

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.
Observe the general rules of industrial fire protection
- 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.
Use personal protective equipment.
Avoid breathing dust.
Avoid contact with skin and eyes.
Wash thoroughly after handling.
Store in a dry place.
Keep away from heat.
Store in original container.
Keep container tightly closed.
- 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**

Contains no substances with occupational exposure limit values.

- Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

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Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
Remarks : Nitrile rubber gloves.
- Eye protection : Safety glasses or chemical splash goggles.
- Skin and body protection : Wear suitable protective equipment.
- 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 : granules
- Colour : off-white
- Odour : No information available.
- Odour Threshold : not determined
- pH : Not applicable
- Drop point : approx. 219 °F / 104 °C
Method: DIN/ISO 2176
- Boiling point : no data available
- Flash point : approx. 500 °F / 260 °C

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	Method: DIN 51758
Evaporation rate	: not determined
Flammability (solid, gas)	: does not ignite Method: EC/440/2008, A.10 GLP: no
Self-ignition	: Method: Expert judgement The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Burning number	: 2 (68 °F / 20 °C) Method: VDI 2263-1 GLP: no Short flaring up without spreading
	2 (212 °F / 100 °C) Method: VDI 2263-1 GLP: no Short flaring up without spreading
Upper explosion limit / upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Density	: 0.95 g/cm ³ (73 °F / 23 °C) Method: ISO 1183
Solubility(ies) Water solubility	: Difficult to dissolve
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if used as directed.
Viscosity Viscosity, dynamic	: approx. 350 mPa.s (248 °F / 120 °C) Method: DIN 53019
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive Method: Expert judgement

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GLP: no

- Oxidizing properties : The substance or mixture is not classified as oxidizing.
Method: Expert judgement
GLP: no
The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
- Metal corrosion rate : Not applicable
- Particle size : no data available

SECTION 10. STABILITY AND REACTIVITY

- 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
Stable
- Conditions to avoid : None known.
- Incompatible materials : no data available
- Hazardous decomposition products : When handled and stored appropriately, no dangerous decomposition products are known
The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

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 423
GLP: yes

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Acute inhalation toxicity : Remarks: not tested.

Acute dermal toxicity : Remarks: not tested.

Skin corrosion/irritation**Product:**

Species : Rabbit
Result : slight irritant effect - does not require labelling
Remarks : By analogy with a product of similar composition

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

Species : rabbit eye
Result : slight irritant effect - does not require labelling
Remarks : By analogy with a product of similar composition

Respiratory or skin sensitisation**Product:**

Test Type : Open epicutaneous test
Exposure routes : Skin contact
Species : Humans
Result : Does not cause skin sensitisation.

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Remarks: not tested.
Germ cell mutagenicity - Assessment : No information available.

Carcinogenicity**Product:**

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.

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Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : No information available.

STOT - single exposure**Product:**

Remarks : no data available

STOT - repeated exposure**Product:**

Remarks : no data available

Repeated dose toxicity**Product:**

Species : Rat
Application Route : Oral
Exposure time : 90 d
Dose : 50 ppm
Remarks : No adverse effect has been observed in chronic toxicity tests.
Based on data from similar materials

Aspiration toxicity**Product:**

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 (Danio rerio (zebra fish)): > 10,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yesToxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

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Toxicity to algae/aquatic plants : Remarks: not tested.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Method: OECD Test Guideline 209

Persistence and degradability**Product:**

Biodegradability : Remarks: The product is slightly soluble in water. It can be eliminated from water by abiotic processes.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not available

Mobility in soil

no data available

Other adverse effects**Product:**

Environmental fate and pathways : Remarks: no data available

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 : Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

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

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

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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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I 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.

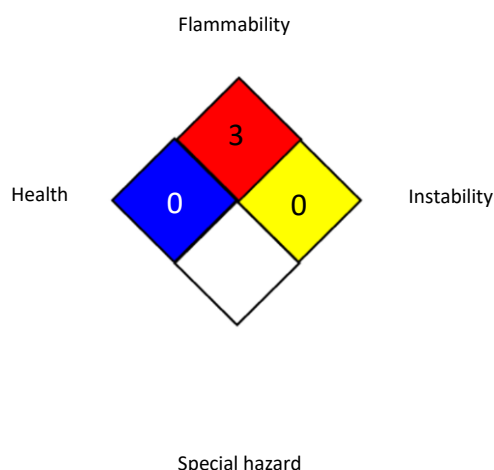
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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.

SECTION 16. OTHER INFORMATION**Further information**

NFPA 704:**Full text of other abbreviations**

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 - 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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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 - Organization 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

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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.

For additional information, contact Product Stewardship.

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

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