

## LIOCENE PP MA 6452 FINE GRAIN

Page 1

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

## SECTION 1. IDENTIFICATION

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

<b>Trade name:</b>	<b>LIOCENE PP MA 6452 FINE GRAIN</b>
<b>Material number:</b>	225227
<b>CAS number:</b>	25722-45-6
<b>Primary product use:</b>	Additive
<b>Chemical family:</b>	Polymer of polypropylene and maleic anhydride

## 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	: <b>Prevention:</b> P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P243 Take precautionary measures against static discharge. Prevent dust accumulations to minimize explosion hazard.

**Other hazards**

Does not require a hazard warning label, but the normal safety precautions for handling chemicals must be observed.

Dust can form an explosive mixture in air.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Substance
Substance name	: Polymer of polypropylene and maleic anhydride

## LICOCENE PP MA 6452 FINE GRAIN

Page 2

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

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CAS-No. : 25722-45-6

**Components**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) or by the Canadian WHMIS 2015 Hazardous Products Regulations (SOR/2015-17).

**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 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 or expected.  
No additional hazards are known except those derived from the labelling.  
The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : None known.

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Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

Emits toxic fumes under fire conditions. This product presents no unusual fire or explosion hazards while sealed in a shipping container. During usage, if a dust cloud is generated, organic powders have the potential to be explosive with static spark or flame initiation.

- 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 : Wear personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

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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

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**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.
- Further information on storage conditions : Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.

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Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Engineering measures** : A system of local and/or general exhaust is recommended where employee exposures are at or above Occupational Exposure Limits (OEL).

**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 with side-shields

Skin and body protection : Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Fine granules

Colour : light yellow

Odour : not specified

Odour Threshold : not determined

pH : Not applicable

Softening point : approx. 291 °F / 144 °C  
Method: ASTM D 3104

Boiling point : not determined

Flash point : not tested.

## LICOCENE PP MA 6452 FINE GRAIN

Page 5

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

Evaporation rate	:	not determined
Flammability (solid, gas)	:	May form combustible dust concentrations in air.
Self-ignition	:	Method: Expert judgement The substance or mixture is not classified as pyrophoric.  Method: VDI 2263 (Greuer) The substance or mixture is not classified as self heating.
Burning number	:	2 (68 °F / 20 °C) Method: VDI 2263, ESCIS, Vol. 1 Short flaring up without spreading  2 (212 °F / 100 °C) Method: VDI 2263, ESCIS, Vol. 1 Short flaring up without spreading  5 (68 °F / 20 °C) Method: VDI 2263, ESCIS: Volume 1, with the addition of 20% SiO <sub>2</sub> . VDI is The Union of German Engineers. ESCIS is The Safety Commission of the Swiss Chemical Industry Complete combustion with flames  5 (212 °F / 100 °C) Method: VDI 2263, ESCIS: Volume 1, with the addition of 20% SiO <sub>2</sub> . VDI is The Union of German Engineers. ESCIS is The Safety Commission of the Swiss Chemical Industry Complete combustion with flames
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.1 hPa (68 °F / 20 °C)
Relative vapour density	:	Not applicable
Density	:	approx. 0.93 g/cm <sup>3</sup> (73 °F / 23 °C) Method: ISO 1183
Solubility(ies) Water solubility	:	insoluble (68 °F / 20 °C)
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	806 °F / 430 °C Method: Other Dust

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Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

Decomposition temperature	:	No decomposition if used as directed.
Viscosity		
Viscosity, dynamic	:	approx. 1,100 mPa.s (338 °F / 170 °C) Method: DIN 53019
Viscosity, kinematic	:	Not applicable
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.
Surface tension	:	Not applicable
Dust deflagration index (Kst)	:	30 m.b_/s
Dust explosion class	:	St1
Metal corrosion rate	:	Not applicable
Minimum ignition energy	:	30 - 100 mJ Method: Mike 3 apparatus with inductive electrical resistance
Particle size	:	not determined

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	See section 10.3. "Possibility of hazardous reactions"
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 and sources of ignition.
Incompatible materials	:	not known
Hazardous decomposition products	:	No hazardous decomposition products if stored and handled as prescribed  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

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

higher than 300 J/g.

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

Eye contact  
Skin contact  
Inhalation  
Ingestion

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

Acute oral toxicity : LD50: > 2,000 mg/kg  
Acute inhalation toxicity : Remarks: no data available  
Acute dermal toxicity : Remarks: no data available

**Skin corrosion/irritation****Product:**

Result : No skin irritation

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

Result : No eye irritation

**Respiratory or skin sensitisation****Product:**

Test Type : Buehler Test  
Exposure routes : Dermal  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

**Germ cell mutagenicity****Product:**

Germ cell mutagenicity - Assessment : No information available.

**Carcinogenicity****Product:**

Carcinogenicity - Assessment : No information available.

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Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

**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.

**Repeated dose toxicity****Product:**

Remarks : This information is not available.

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks : The product has not been tested. The statements are derived from products of a similar composition.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish : Remarks: not tested.

Toxicity to daphnia and other :  
aquatic invertebrates Remarks: not tested.

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

Toxicity to microorganisms : Remarks: not tested.

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

Biodegradability : Remarks: not tested.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.



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Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

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**Mobility in soil**

no data available

**Other adverse effects****Product:**

Environmental fate and pathways : Remarks: no data available

Additional ecological information : Product is insoluble in water  
Harmful effects to fish and bacteria: not harmful  
May be separated mechanically in waste water plants.  
The ecotoxicity of the product has not been tested. The information given is based on products of similar structure or composition.

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**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

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**SECTION 14. TRANSPORT INFORMATION**

DOT not restricted

IATA not restricted

IMDG not restricted

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**SECTION 15. REGULATORY INFORMATION****CERCLA Reportable Quantity**

Listed substances in the product are at low enough levels to not be expected to exceed the 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.

# SAFETY DATA SHEET



**LICOCENE PP MA 6452 FINE GRAIN**

Page 10

---

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

**SARA 311/312 Hazards** : No SARA Hazards

**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 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.

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## **SECTION 16. OTHER INFORMATION**

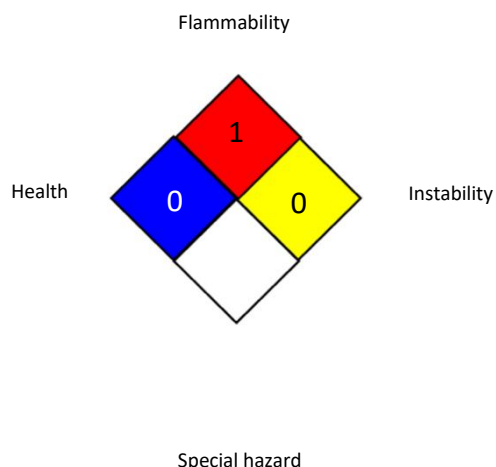
### **Further information**

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

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

AICC - 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); EC<sub>x</sub> - Concentration associated with x% response; EHS - Extremely Hazardous Substance; EL<sub>x</sub> - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErC<sub>x</sub> - 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; IC<sub>50</sub> - 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; LC<sub>50</sub> - Lethal Concentration to 50 % of a test population; LD<sub>50</sub> - 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

# SAFETY DATA SHEET



## LICOCENE PP MA 6452 FINE GRAIN

Page 12

---

Substance key: 000000282554

Revision Date: 06/19/2024

Version : 3 - 2 / USA

Date of printing :08/09/2024

---

Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;  
vPvB - Very Persistent and Very Bioaccumulative

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

For additional information, contact Product Stewardship.

Revision Date : 06/19/2024

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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