

## SAFETY DATA SHEET

**Product:** PARAFINA MOLE MACROCRISTALINA

Revision: 01

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### 1 - IDENTIFICATION

GHS Product identifier:	PARAFINA MOLE MACROCRISTALINA
Other means of identification:	PAR894
Recommended use of the chemical:	Used in the manufacture of vaselines, candles, agglomerates, protective waxes, etc.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	<p>Acelen</p> <p><b>Address:</b> ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil.</p> <p><b>Phone number:</b> (71) 3511-8000 / (11) 5225-8900</p>
Emergency phone number:	EMERGENCIall: 0800 729 2756 / (11) 94759-7282 (Whatsapp) (24h)

### 2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Product not classified as hazardous by the Classification System used.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.
<b>GHS label elements, including precautionary statements</b>	
Caution recommendations:	<p>Wash your hands after handling the product.</p> <p>During handling of the product do not drink, eat or smoke.</p> <p>It is recommended the use of appropriate PPE when handling the product.</p> <p>Get product information before handling.</p> <p>Store product in a suitable place.</p> <p>In case of emergency, proceed as directed by the SDS GHS (EN).</p>
Other hazards which do not result in classification:	The product has no other hazards.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<b>SUBSTANCE</b>	A complex combination of hydrocarbons obtained from petroleum fractions by solvent crystallization (solvent deoilification). It consists predominantly of straight chain hydrocarbons having carbon numbers predominantly greater than C20.
Common chemical name:	Paraffin waxes and hydrocarbon waxes.
Common name(s), synonym(s) of the substance:	Hard paraffin; Paraffin wax (petroleum); Petroleum wax, crystalline.
CAS:	8002-74-2
Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance:	Does not contain components that contribute to the hazard.

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### 4 - FIRST-AID MEASURES

#### Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air.
Skin:	Wash exposed skin with sufficient amount of water to remove the material.
Eye:	Wash carefully with water for several minutes. In case of use of contact lenses, remove them, if possible. Keep washing. If eyes irritation continues: Contact a doctor. Bring this SDS.
Ingestion:	Do not induce vomiting. Wash the exposed persons mouth with water. If the victim feels unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this SDS.
Most important symptoms/effects, acute and delayed:	When melted (after heating) it can cause burns with pain and redness in the affected area. The fumes are irritating to the eyes, with pain and tearing.
Indication of immediate medical attention and special treatment needed, if necessary:	If necessary, provide symptomatic treatment.

### 5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: carbon dioxide (CO <sub>2</sub> ), foam, water mist and powder. Inappropriate: water jet directly.
Specific hazards arising from the chemical:	Fumes can be irritating to the respiratory tract, with coughing and dryness in the throat. Exposure to high concentrations of fumes can cause narcotic effects such as headaches, nausea, vomiting, anesthetic effects and disorientation. Vapors can be denser than air and tend to collect in low or confined areas such as sewers and basements. Containers can explode if heated.
Special protective actions for fire-fighters:	Wear self-contained breathing apparatus (SCBA) with positive pressure and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not smoke. Avoid exposure to the product. If necessary, use personal protective equipment as described in Section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory protection mask.
Environmental precautions:	Avoid that the spilled material reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Collect the product with a clean shovel or other instrument that does not disperse the product. Put the material into appropriate containers and remove them to a safe place. For final destination, proceed pursuant to Section 13 of this SDS.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

Precautions for safe handling:	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid dust formation. Avoid contact with incompatible materials.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking or going to the

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bathroom.

### Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion: It is not expected that the product presents a fire or explosion hazard. Use personal protective equipment as described in Section 8.

Conditions for safe storage, including any incompatibilities: Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures.  
It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging materials: There are not known unsuitable material.

## 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Occupational exposure limit: The values below apply to workplaces.  
NIOSH - REL - TWA: 2 mg/m<sup>3</sup>;  
ACGIH - TLV - TWA: 2 mg/m<sup>3</sup>.

Biological limit: Not established.

Other limits and values: Not established.

Appropriate engineering controls: Promote mechanical ventilation and exhaust system to outside. These acts help reducing the exposition to the product. Maintain atmospheric concentrations of product constituents below the indicated occupational exposure limits. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

### Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Wide-view glasses with splash protection.

Skin protection: Safety shoes and safety clothing to protect the whole body from chemical splashes. Protective gloves against chemicals such as PVC.

Respiratory protection: Use of respirator with filter against vapors and organic mists is recommended for average exposures above half the TLV-TWA. In cases where exposure exceeds 3 times the TLV-TWA value, use a self-contained, full facepiece, air-supplied respirator (SCBA) operated in positive pressure mode. Follow guidance from the Respiratory Protection Program (PPR), 4th ed. São Paulo: Fundacentro, 2016.

Thermal hazards: It does not present thermal hazards.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect: Solid.

Color: Not available.

Odour: Odorless.

Melting point/freezing point: 43 to 95 °C (109.4 to 203 °F) at 101.325 kPa.

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Boiling point or initial boiling point and boiling range:	Not available.	
Flammability:	Not available.	
Lower and upper explosion limit/flammability limit:	Not available.	
Flash point:	≥ 180 °C (356 °F) - Open cup.	
Auto-ignition temperature:	Not available.	
Decomposition temperature:	Not available.	
pH:	Not applicable.	
Kinematic viscosity:	4 mm <sup>2</sup> /s at 100 °C (212 °F).	
Solubility(ies):	Insoluble in water (0 to 142.1 mg/L (0 to 142100 mg/m <sup>3</sup> ) at 20 °C (68 °F)). Soluble in toluene (14.5 g/100 g at 20°C).	
Partition coefficient n-octanol/water (log value):	log <i>K</i> <sub>ow</sub> : 3.17 to 18.02 (calculated).	
Vapour pressure:	Not available.	
Relative vapour density:	Not available.	
Density and/or relative density:	Relative density: 0.815 to 0.835 at 20 °C (68 °F).	
Particle characteristics:	Not available.	
Other information:	Not applicable.	

### 10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
Chemical stability:	Stable product under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	Risk of explosion in contact with nitrates and other strong oxidizing agents.
Conditions to avoid:	Elevated temperatures. Contact with incompatible materials.
Incompatible material:	Strong oxidizing agents.
Hazardous decomposition products:	In combustion, it can release irritating and toxic gases such as carbon monoxide and dioxide.

### 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by oral and dermal. LD <sub>50</sub> Oral (rats): > 5000 mg/kg. LD <sub>50</sub> Dermal (rabbits): > 4000 mg/kg.
Skin corrosion/irritation:	When melted (after heating) it can cause burns with pain and redness in the affected area.

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Serious eye damage/irritation:	The fumes are irritating to the eyes, with pain and tearing.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	Not classified for carcinogenicity. Studies with dermal and oral exposure: no evidence of carcinogenic effects. Studies with subcutaneous exposure: positive results in a study with subcutaneous implantation performed in rats, with manifestation of sarcomas. However, the results are controversial, since it has not been established whether the cause of this effect is more related to the physical implantation or to the chemical properties of the paraffins.
Reproductive toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

### 12 - ECOLOGICAL INFORMATION

Toxicity:	It is not expected to be ecotoxic. LC <sub>50</sub> ( <i>Pimephales promelas</i> , 96 h): > 100 mg/L; EC <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): > 100 mg/L; ErC <sub>50</sub> ( <i>Raphidocelis subcapitata</i> , 72 h): > 100 mg/L; NOEC ( <i>Daphnia magna</i> , 21d): > 1 mg/L; NOEC ( <i>Raphidocelis subcapitata</i> , 72h): > 1 mg/L.
Persistence and degradability:	It has persistence and is not considered rapidly degradable. Degradation rate: 31% in 28 days.
Bioaccumulative potential:	Presents high bioaccumulative potencial in aquatic organisms. BCF: 3.16 to 25700 (calculated) log K <sub>ow</sub> : 3.17 to 18.02 (calculated).
Mobility in soil:	Not determined.
Other adverse effects:	The release of large amounts of product can cause undesirable environmental effects, such as the reduction of oxygen availability in aquatic environments due to the formation of an oily layer on the surface, coating and consequent suffocation of animals.

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

### 14 - TRANSPORT INFORMATION

Road:	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	Not classified as hazardous for the road transportation.

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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Environmental hazards:	The product is not considered dangerous for the environment for land transport.
<b>Railway regulations:</b>	COTIF - Convention concerning International Carriage by Rail: <ul style="list-style-type: none"> <li>• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.</li> </ul>
UN number:	Not classified as dangerous for rail transport.
Environmental hazards:	The product is not considered dangerous for the environment in rail transport.
<b>Sea:</b>	IMO - International Maritime Organization: <ul style="list-style-type: none"> <li>• IMDG Code - International Maritime Dangerous Goods Code.</li> </ul>
UN number:	Not classified as hazardous for water transportation.
Environmental hazards:	It's not considered a marine pollutant for transportation.
<b>Air:</b>	IATA - International Air Transport Association: <ul style="list-style-type: none"> <li>• DGR - Dangerous Goods Regulation.</li> </ul>
UN number:	Not classified as dangerous for air transport.
Environmental hazards:	The product is not considered dangerous for the environment for air transport.
Special precautions for user:	Not applicable.
Maritime transport in bulk according to IMO instruments:	Consult regulations: <ul style="list-style-type: none"> <li>• International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;</li> <li>• International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.</li> </ul>

**15 - REGULATORY INFORMATION**  
 Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

**16 - OTHER INFORMATION**  
 This SDS was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other materials, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

**Change control:**

Version	Manufacture date	Changes
01	03/20/2023	Elaboration

**Abbreviations:**

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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ACGIH - American Conference of Governmental Industrial Hygienists;  
 BCF - Bioconcentration factor;  
 CAS - Chemical Abstracts Service;  
 EC - European Community;  
 EC<sub>50</sub> - Effective concentration of substance that causes 50 % of the maximum response;  
 EEC - European Economic Community;  
 ErC<sub>50</sub> - Effective concentration that results in a 50% reduction in the growth rate;  
 IARC - International Agency for Research on Cancer;  
 K<sub>ow</sub> - Octanol-water partition coefficient;  
 LC<sub>50</sub> - Lethal Concentration 50%;  
 LD<sub>50</sub> - Lethal Dose 50%;  
 NIOSH - National Institute for Occupational Safety and Health;  
 NOEC - No Observed Effect Concentration;  
 REL - Recommended Exposure Limit;  
 TLV - Threshold Limit Value;  
 TWA - Time Weighted Average.

### Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

ECHA - EUROPEAN CHEMICAL AGENCY. Available at: < <http://echa.europa.eu/web/guest> >. Access in: Mar. 2023.

GESTIS - SUBSTANCE DATABASE. Available at: < [http://gestis-en.itrust.de/nxt/gateway.dll/gestis\\_en/000000.xml?f=templates\\$fn=default.htm\\$3.0](http://gestis-en.itrust.de/nxt/gateway.dll/gestis_en/000000.xml?f=templates$fn=default.htm$3.0) >. Access in: Mar. 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.

HSDB - HAZARDOUS SUBSTANCES DATA BANK. Available at: <http://pubchem.ncbi.nlm.nih.gov/>. Access in: Mar. 2023.

IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER. Available at: <http://monographs.iarc.fr/ENG/Classification/index.php>. Access in: Mar. 2023.

IPCS - INTERNATIONAL PROGRAMME ON CHEMICAL SAFETY - INCHEM. Available at: <http://www.inchem.org/>. Access in: Mar. 2023.

IUCLID - INTERNATIONAL UNIFORM CHEMICAL INFORMATION DATABASE. [S.1.]: European chemical Bureau. Available at: <http://ecb.jrc.ec.europa.eu>. Access in: Mar. 2023.

NIOSH - NATIONAL INSTITUTE OF OCCUPATIONAL AND SAFETY. International Chemical Safety Cards. Available at: <http://www.cdc.gov/niosh/>. Access in: Mar. 2023.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF> >. Access in: Mar. 2023.

TOXNET - TOXICOLOGY DATA NETWORKING. ChemIDplus Lite. Available at: <http://chem.sis.nlm.nih.gov/>. Access in: Mar. 2023.