

## SAFETY DATA SHEET

**Product:** PARAFINA DESOLEIFICADA

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### 1 - IDENTIFICATION

GHS Product identifier:	PARAFINA DESOLEIFICADA
Other means of identification:	AC.425
Recommended use of the chemical:	Used in the manufacture of candles and tires.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	Acelen <b>Address:</b> ROD BA 523, KM 4, MATARIPE, CEP: 43900-000 - BA - Brasil. <b>Phone number:</b> (71) 3511-8000 / (11) 5225-8900
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:	Wash your hands after handling the product. During handling of the product do not drink, eat or smoke. It is recommended the use of appropriate PPE when handling the product. Get product information before handling. Store product in a suitable place. In case of emergency, proceed as directed by the SDS GHS (EN).
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 long and branched chain hydrocarbons obtained from residual oils by solvent crystallization. It consists predominantly of saturated straight and branched chain hydrocarbons predominantly greater than C35.
Common chemical name:	Paraffin waxes and hydrocarbon waxes, microcryst.
Common name(s), synonym(s) of the substance:	Microcrystalline Wax.
CAS:	63231-60-7
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:	Rinse carefully with water for several minutes. If you wear contact lenses, remove them if that's easy. If eye irritation occurs: consult a physician. Take this MSDS.
Ingestion:	Do not induce vomiting. Rinse the exposed person's mouth with water. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Take this MSDS.
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> ), water mist and powder. Inappropriate: water jet directly.
Specific hazards arising from the chemical:	Combustion of the chemical or its packaging can form irritating and toxic gases such as carbon monoxide and carbon dioxide. Vapors may be heavier than air and tend to accumulate in low or confined areas, such as sewers and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Use self-contained breathing apparatus (SCBA) operated in positive pressure mode and complete protective clothing. Containers and tanks involved in the fire should be cooled with water mist.

### 6 - ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel:	Do not smoke. Avoid contact with the product. If necessary, use personal protective equipment as described in section 8.
For emergency responders:	Isolate leakage from ignition sources preventively.
Environmental precautions:	Prevent spilled product from reaching waterways and sewers.
Methods and materials for containment and cleaning up:	Collect the product with a clean shovel or other instrument that will not disperse the product. Place material in appropriate containers and remove to a safe location. For final disposal, proceed according to Section 13 of this MSDS. There is no distinction between the actions of large and small leaks for this product.

### 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 bathroom.

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### Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	The product is not expected to present a fire or explosion hazard.
Conditions for safe storage, including any incompatibilities:	Store in a well ventilated place away from sunlight. Keep container closed. Keep away from high temperatures. Keep stored at room temperature not exceeding 35°C. It is not necessary addition of stabilizers and antioxidants to ensure the durability. 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:	Not established.
Biological limit:	Not established.
Other limits and values:	Not established.
Appropriate engineering controls:	Provide ventilation combined with local exhaust, especially when product vapours/mists are formed. It is recommended to make emergency showers and eye wash facilities available in the work area.

#### 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:	76.7 to 87.8 °C (170.06 to 190.04 °F).
Boiling point or initial boiling point and boiling range:	295 °C (563 °F) at 760 mmHg (101324.72 Pa).
Flammability:	Not available.
Lower and upper explosion	Not available.

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limit/flammability limit:		
Flash point:	> 200 °C (392 °F) - Closed cup.	
Auto-ignition temperature:	Not available.	
Decomposition temperature:	Not available.	
pH:	Not applicable.	
Kinematic viscosity:	3 to 6 mm <sup>2</sup> /s at 100 °C (212 °F).	
Solubility(ies):	Insoluble in water (0.027 to 5.96 mg/L (27 to 5960 mg/m <sup>3</sup> ) at 25 °C (77 °F)). Soluble in toluene (14.5 g/100 g at 20°C).	
Partition coefficient n-octanol/water (log value):	log <i>K<sub>ow</sub></i> : 5.3 to 6.7.	
Vapour pressure:	0 to 20 Pa at 80 °C (176 °F).	
Relative vapour density:	Not available.	
Density and/or relative density:	Relative density: 0.797 at 80 °C (176 °F).	
Particle characteristics:	Not available.	
Other information:	Maximum oil content: 2.0% mass (ASTM D721).	

### 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:	There are not known hazardous reactions with the material.
Conditions to avoid:	Elevated temperatures. Contact with incompatible materials.
Incompatible material:	Strong oxidizing agents.
Hazardous decomposition products:	In combustion, it can release toxic gases, such as carbon monoxide and dioxide, and corrosive fumes.

### 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 (rats): >2000 mg/kg mg/kg.
Skin corrosion/irritation:	When melted (after heating) it can cause burns with pain and redness in the affected area.
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.

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Carcinogenicity:	It is not expected to be carcinogenic.
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.
Persistence and degradability:	It has persistence and is not considered rapidly degradable. Degradation rate: 31% in 28 days.
Bioaccumulative potential:	Presents high bioaccumulative potential in aquatic organisms. log K <sub>ow</sub> : 5.3 to 6.7.
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

<b>Road:</b>	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	Not classified as hazardous for the road transportation.
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: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
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: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	Not classified as hazardous for water transportation.
Environmental hazards:	It's not considered a marine pollutant for transportation.

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<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
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: • 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; • 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.

### 15 - REGULATORY INFORMATION

Federal Decree No. 10,088, of November 5, 2019;  
 ABNT-NBR 14725:2014 Standard;  
 Regulatory Norm nº 26 (Safety signs), from the Ministry of Labor and Social Security.

### 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	04/19/2023	Elaboration

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
 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;  
 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;  
 TLV - Threshold Limit Value;  
 TWA - Time Weighted Average.

#### Bibliographic references:

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 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: Apr. 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: Apr. 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: Apr. 2023.

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

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

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

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

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