METHYL PARABEN

Section 1. Identification

Product name:	Methyl Paraben
Synonyms:	Methyl 4-hydroxybenzoate; Methyl ester of 4-hydroxybenzoic acid.
Identified uses:	Chemical raw material
Company:	Distribuidora Industrial Paranaense Ltda.
Adress:	Rua Stefano Soik, n.º 20, CIC, CEP 81.420-586 - Curitiba - PR
Telephone:	+55 41 3245-0777
Emergency telephone number:	
Disque-Intoxicação (Anvisa)	0800-722-6001
Fax:	+55 41 3245-0777
e-mail:	dipa@dipaquimica.com.br

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Section 2. Hazard Identification

2.1. Classification of the substance or mixture:

GHS Classification in accordance with ABNT NBR 14725 Standard

Hazardous to the aquatic environment - Short-term (acute) hazard – Category 3
Hazardous to the aquatic environment - Long-term (chronic) hazard – Category 2

2.2. Other hazards:

No additional information available.

2.3. Label elements:

Hazard pictograms:



Signal word: Not applicable.

Hazard statements:

H402 - Harmful to aquatic life.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
P273 - Avoid release to the environment.

Response:
P391 - Collect spillage.

Disposal:
P501 - Dispose of contents/container in accordance with local regulations.

Section 3. Composition/Information on Ingredients

3.1. Substance / Mixture: Substance
Common chemical name: Methyl Paraben
Synonyms: Methyl 4-hydroxybenzoate; Methyl ester of 4-hydroxybenzoic acid.
CAS number: 99-76-3

3.2. Components:

Substance name	CAS number	Concentration
Methyl Paraben	99-76-3	≥ 99.0%

Section 4. First-Aid Measures

4.1. Description of necessary first-aid measures:

If swallowed:
Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical help if unwell.

If on skin:
Take off all contaminated clothing. Rinse with water for several minutes. If skin irritation occurs, get medical help.

If inhaled:
Remove person to fresh air and keep comfortable for breathing. Get medical help if unwell.

If in eyes:
Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help.

4.2. Indication of immediate medical attention and special treatment needed, if necessary:
Avoid contact with the product when assisting the victim. If necessary, symptomatic treatment should primarily include supportive measures such as correction of hydroelectrolytic and metabolic disturbances, as well as respiratory assistance. In case of skin contact, do not rub the affected area.

Section 5. Fire-Fighting Measures

5.1. Extinguishing media:

Appropriate:
Alcohol-resistant foam, water mist, dry chemicals and carbon dioxide (CO_2).

Inappropriate:
Solid water stream.

5.2. Specific hazards arising from the chemical:
In case of fire, toxic incineration products may be released such as carbon monoxide and carbon dioxide. May form explosive mixtures with air under intense heating.

5.3. Special protective actions for fire-fighters:
Use a self-contained breathing apparatus (SCBA) and full-body protective clothing. Keep containers cool with water spray. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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Section 6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
Preventively isolate from ignition sources. Do not smoke. Keep unauthorized persons away from the area. Stop the leak if it can be done without risk. Do not touch damaged containers or the material without appropriate protective clothing. Avoid exposure to the product. Use personal protective equipment as described in Section 8.

For emergency responders:
Wear appropriate personal protective equipment, including safety glasses with side protection, nitrile safety gloves, appropriate protective clothing, and safety footwear. In case of a leak with significant exposure, the use of a respiratory protection mask (full-face or half-face) with a particulate filter, a full-face mask with an air supply line, or a self-contained breathing apparatus is recommended.

6.2. Environmental precautions:

Prevent product from entering drains, soil and waterways. Prevent further leakage or spillage if safe to do so. Notify the competent authorities if the product has run into drainage systems or watercourse or has contaminated the ground or vegetation.

6.3. Methods and materials for containment and cleaning up:

Collect the product using a clean scoop or other instrument that does not disperse the material. Place the collected material in appropriate containers and remove them to a safe location. For final disposal, proceed as per Section 13 of this SDS.

Section 7. Handling and Storage

7.1. Appropriate technical measures for handling:

Precautions for safe handling:
Handle in a well-ventilated area or with general ventilation/local exhaust system. Avoid exposure to the product. Avoid contact with incompatible materials. Use personal protective equipment as described in Section 8.

Hygiene measures:
Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the restroom. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Information about protection against explosion and fire:
No special measures required.

Appropriate conditions:
Store in tightly closed containers in cold, dry and well ventilated areas. Do not expose to sunlight. Ensure that the storage location has adequate moisture, pressure and temperature. Keep away from incompatible materials, as described in Section 10.

Section 8. Exposure Controls/Personal Protection

8.1. Control parameters:

Ingredients with workplace control parameters:
Not established.

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Biological exposure indices:
Not established.

Other limits and values:
Not established.

8.2. Appropriate engineering controls:
Promote mechanical ventilation and direct exhaust system to the outside. These measures help reduce exposure to the product.

8.3. Individual protection measures, such as personal protective equipment (PPE):

Eye/face protection:
Safety glasses with side protection.

Skin protection:
Nitrile safety gloves, appropriate protective clothing, and safety footwear.

Respiratory protection:
In case of exposure to high concentrations the dusts of the product use a respiratory protection mask (full-face or half-face) with a particulate filter.

Thermal hazards:
Not required.

Section 9. Physical and Chemical Properties

9.1. Basic physical and Chemical properties:

Physical state:	Solid in crystal form
Color:	White
Odor:	Odorless
pH:	Not available
Particle characteristics	Not available
Melting point/freezing point:	125 °C (OECD Test Guideline 102)
Boiling point or initial boiling point and boiling range:	Decomposes below the boiling point
Flash point:	168 °C
Flammability:	Not available
Lower and upper explosion limit/ flammability limit:	Not available
Vapor pressure:	< 1 hPa at 20 °C
Relative vapor density:	5.23 (air = 1.0)
Density:	Not available
Solubility:	Slightly soluble in water (1.88 g/L at 20 °C)
Partition coefficient n-octanol/water (log value):	log P_{ow} = 1.98 at 22 °C
Auto-ignition temperature:	> 403 °C
Decomposition temperature:	270 - 280 °C

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Kinematic viscosity:	Not available

9.2. Other information:
Not available.

Section 10. Stability and Reactivity

10.1. Reactivity:
In the event of intense heating, may form explosive mixtures with air. A temperature approximately 15 °C below the flash point is considered critical.

10.2. Chemical stability:
Stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions:
Violent reactions are possible with strong bases and oxidizing agents.

10.4. Conditions to avoid:
High temperatures and contact with incompatible materials.

10.5. Incompatible materials:
Strong bases and oxidizing agents.

10.6. Hazardous decomposition products:
Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

Section 11. Toxicological Information

11.1. Acute toxicity:

Acute oral toxicity:
LD_{50}: > 5,000 mg/kg

Acute inhalation toxicity:
No data available.

Acute dermal toxicity:
No data available.

11.2. Skin corrosion/irritation:
Does not cause skin irritation (rabbit).

11.3. Serious eye damage/irritation:
Mild irritation (rabbits) - ECHA.

11.4. Respiratory or skin sensitization:
Optimization test
Test system: Guinea pig.
Result: Negative.
OECD Test Guideline 406.

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11.5. Germ cell mutagenicity:

Ames Test
Test system: *Salmonella typhimurium*
Metabolic activation: With or without metabolic activation
Result: Negative.
OECD Test Guideline 471.

In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: With or without metabolic activation
Result: Negative.
OECD Test Guideline 476.

In vitro chromosomal aberration test
Test system: Chinese hamster lung cells
Metabolic activation: Without metabolic activation
Result: Negative.
OECD Test Guideline 473.

Dominant lethal test
Species: Rat
Route of administration: Oral
Result: Negative.
OECD Test Guideline 478.

11.6. Carcinogenicity:

Based on available data the classification criteria are not met.

11.7. Reproductive toxicity:

Based on available data the classification criteria are not met.

11.8. Toxicity for specific target organ – single exposure:

Based on available data the classification criteria are not met.

11.9. Toxicity for specific target organ – repeated exposure:

Based on available data the classification criteria are not met.

11.10. Aspiration hazard:

Based on available data the classification criteria are not met.

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Section 12. Ecological Information

12.1. Toxicity:

Acute toxicity to fish:
LC_{50} - 96 h: 59.5 mg/L - *Oryzias latipes*
Semi-static test.
OECD Test Guideline 203.
ECHA

Acute toxicity to daphnia and other aquatic invertebrates:
EC_{50} - 48 h: 11.2 mg/L - *Daphnia magna*
Static test.

ISO 6341
ECHA

Acute toxicity to algae:
ErC_{50} - 72 h: 91 mg/L - *Raphidocelis subcapitata*
ISO 8692
ECHA

Acute toxicity to microorganisms:
EC_0: 500 mg/L - *Pseudomonas fluorescens*

Chronic toxicity to fish:
NOEC: 0.024 mg/L - *Danio rerio*
ECHA

Chronic toxicity to daphnia and other aquatic invertebrates:
NOEC - 21 d: 0.20 mg/L - *Daphnia magna*
Semi-static test.
ECHA

12.2. Persistence and degradability:
Readily biodegradable.
Aerobic - exposure duration: 28 days.
Result: 89%
OECD Test Guideline 301B.

12.3. Bioaccumulative potential:
No bioaccumulation expected.
log P_{ow} = 1.98 at 22 °C.

12.4. Mobility in soil:
No data available.

12.5. Other adverse effects:
No additional information available.

Section 13. Disposal Considerations

13.1. Disposal methos:

Product:
The preferred options for disposal include reuse, recycling, co-processing, finding a use for a byproduct, incineration or other thermal destruction process at licensed facilities. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.

Waste from residues:
Any unused product should be put in labelled containers for waste collection and submitted for disposal. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or

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reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.

Contaminated packaging:
Do not cut or pierce the packaging, nor do hot work near them. Do not remove labels until the product has been fully removed and the packaging cleaned. All procedures must follow specific operation standards in order to reduce health, safety and environmental risks. Perform co-processing, incineration or other thermal destruction process at facilities capable of minimizing or reducing air pollution emissions. The disposal must comply with federal, state, and local laws and regulations in accordance with the environmental agencies.

Section 14. Transport Information

14.1. Regulations

Land transport:
Resolução nº 5998 de 3 de Novembro de 2022 da Agência Nacional de Transportes Terrestres (ANTT), *Atualiza o Regulamento para o Transporte Rodoviário de Produtos Perigosos, aprova suas Instruções Complementares, e dá outras providências*.

UN number:	3077
UN proper shipping name	SUBSTÂNCIA QUE APRESENTA RISCO PARA O MEIO AMBIENTE, SÓLIDA, N.E. (Metil Parabeno)
Hazard class:	9
Subsidiary hazard class:	N.A.
Hazard identification number:	0
Packing group:	III

Maritime Transport:
IMO - *International Maritime Organization*
IMGD - *International Maritime Dangerous Goods Code*
DPC - Diretoria de Portos e Costas (transport in brazilian waters)
Normas de Autoridade Marítima (NORMAM)
NORMAM 201/DPC: Embarcações Empregadas na Navegação em Mar Aberto
NORMAM 202/DPC: Embarcações Empregadas na Navegação Interior
NORMAM 321/DPC: Homologação de Material e Certificação de Laboratórios e Sistemas de Embarque
ANTAQ - Agência Nacional de Transportes Aquaviários

UN number:	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methylparaben)
Hazard class:	9
Subsidiary hazard class:	N.A.
Packing group:	III
EmS:	F-A, S-F
Marine pollutant:	Sim

Air transport:
ICAO - *International Civil Aviation Organization* - Techinical Instructions (TI) Doc 9284.
IATA - *International Air Transport Association - Dangerous Goods Regulation* (DGR).

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ANAC - Agência Nacional de Aviação Civil - Resolução n° 129 de 8 de dezembro de 2009.
RBAC Nº 175 - (Regulamento Brasileiro da Aviação Civil) - Transporte de Artigos Perigosos em Aeronaves Civis.

UN number:	3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Methylparaben)
Hazard class:	9
Subsidiary hazard class:	N.A.
Packing group:	III
Environmentally hazardous:	Sim

Section 15. Regulatory Information

15.1. Specific regulation for the product:

Decreto Federal nº 10.088, de 5 de novembro de 2019 – Anexo LX.
Norma ABNT-NBR 14725.
Lei nº 12.305, de 02 de agosto de 2010 (Política Nacional de Resíduos Sólidos).
Decreto nº 10.936, de 12 de janeiro de 2022.
Portaria MTB nº 3.214, de 08 de junho de 1978 - Norma Regulamentadora nº 26.

Section 16. Other Information

In locations where chemical products are handled, monitoring of worker exposure should be conducted in accordance with the applicable Risk Management Program and international occupational safety guidelines. Employees who handle chemical products in general should undergo biological monitoring according to the Occupational Health and Safety Program or other applicable international standards.

The information and recommendations in this document were researched and compiled from reliable sources, the Safety Data Sheets (SDS) provided by suppliers, and applicable regulations for the product, in accordance with ABNT NBR 14725.

The data in this document refers to a specific product and may not be valid when this product is used in combination with others. DISTRIBUIDORA INDUSTRIAL PARANAENSE LTDA, based on the facts presented in this document, does not intend to establish absolute and definitive information about the product and its risks, but rather to provide guidance with information to protect its employees and clients, ensuring individual protection, continuity of operations, and environmental preservation.

16.1. Abbreviations and acronyms

ABNT-NBR	Associação Brasileira de Normas Técnicas - Norma Técnica Brasileira
CAS	Chemical Abstracts Service
DPC	Diretoria de Portos e Costas
EbC_{50}	Half maximal Effective Concentration on biomass
EC_0	Effective Concentration at which no effect is observed
EC_{50}	Half maximal Effective Concentration
ErC_{50}	Half maximal Effective Concentration on growth rate
ECHA	European Chemicals Agency
EmS	Emergency Response Procedures for Ships Carrying Dangerous Goods

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IATA–DGR	International Air Transport Association – Dangerous Goods Regulation
IMDG	International Maritime Dangerous Goods Code
IMO	International Maritime Organization
K_{ow}	Octanol-Water Partition Coefficient
LD_{50}	Median Lethal Dose
N.A.	Not applicable
N.E.	Não especificadas de outro modo
N.O.S.	Not otherwise specified
OECD	Organisation for Economic Co-operation and Development
P_{ow}	Octanol-Water Partition Coefficient
RBAC	Regulamento Brasileiro da Aviação Civil
UN	United Nations

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