

METHYL PARABEN (METHYLPARABEN, E218)

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

METHYL PARABEN (METHYLPARABEN, E218)  
Methyl 4-Hydroxybenzoate; Methylparaben; E218  
CAS: 99-76-3

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Antimicrobial preservative (E218) used in food, beverage, cosmetic and pharmaceutical formulations (creams, lotions, oral/injectable preparations) against bacteria, yeasts and moulds. For industrial/commercial user only.  
Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

**SURAJ CHEMICALS**  
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1.4 Emergency phone number:

Emergency Contact No: +91 - 7092722822, +91 - 9840284032

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

**GHS:**  
Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

|                |                                                                                         |
|----------------|-----------------------------------------------------------------------------------------|
| Not classified | Not a hazardous substance or mixture according to GHS criteria, based on available data |
|----------------|-----------------------------------------------------------------------------------------|

Methyl Paraben is a well-established, widely used food/pharma-grade ingredient with a long history of safe industrial handling and consumption. It is not classified as hazardous to health, physical hazards, or the environment under standard GHS criteria.

2.2 GHS label elements, including precautionary statements:

**GHS:** No signal word, pictogram or hazard statement is required under GHS classification criteria.

Hazard statements:

None assigned under GHS classification.

Precautionary statements:

P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/eye protection as a general industrial hygiene precaution.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards which do not result in classification:

Fine powder/dust of this product may cause mechanical/nuisance irritation to eyes, skin and the respiratory tract on prolonged or repeated contact; it is not considered a specific target organ toxicant. This substance is not identified as a PBT or vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

**Chemical description:** Methyl Paraben – the methyl ester of 4-hydroxybenzoic acid (para-hydroxybenzoic acid), a member of the paraben family of preservatives  
In accordance with Annex 4.3.3 of the GHS, the product contains:

| Identification | Chemical Name / Classification  | Concentration                       |
|----------------|---------------------------------|-------------------------------------|
| CAS: 99-76-3   | Methyl Paraben — Not classified | ≥99.0% (food/pharma grade, typical) |

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

This product is not classified as hazardous; standard first-aid practice should nonetheless be followed in case of accidental exposure. Seek medical attention if symptoms persist, showing this SDS.

By inhalation:

If dust inhalation causes discomfort, remove the person affected to fresh air and keep at rest.

By skin contact:

Remove contaminated clothing. Wash the affected area with plenty of soap and water.

By eye contact:

Rinse eyes thoroughly with clean water for several minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

By ingestion/aspiration:

Rinse mouth with water. If a large quantity is accidentally swallowed and discomfort occurs, seek medical advice.

4.2 Most important symptoms/effects, acute and delayed:

No significant acute or delayed effects are expected under normal conditions of use. See sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not relevant – treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

**Suitable:** Water spray/fog, foam, dry chemical powder, carbon dioxide (CO<sub>2</sub>).  
**Unsuitable:** High-pressure water jet on bulk dust/powder accumulations (may disperse dust and increase explosion risk).

5.2 Specific hazards arising from the chemical:

Not classified as flammable. As with most finely divided organic solids, dust suspended in air in sufficient concentration may present a combustible dust hazard in the presence of an ignition source. Combustion/thermal decomposition may generate oxides of carbon.

5.3 Special protective actions for fire-fighters:

Wear self-contained breathing apparatus (SCBA) and full protective clothing for significant fires. Avoid actions that generate or disperse combustible dust. Cool fire-exposed containers with water spray.

Additional provisions:

None beyond standard fire-fighting practice.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Avoid generating dust. Use the personal protective equipment described in Section 8. Ensure adequate ventilation.

For emergency responders:

No special equipment beyond standard PPE (Section 8) is required for this non-hazardous product.

6.2 Environmental precautions:

Avoid large-scale discharge into drains or water courses, which may cause a local biological oxygen demand (BOD) load.

6.3 Methods and materials for containment and cleaning up:

Sweep up or vacuum (avoiding dust dispersion) and collect in a clean, dry, labelled container for recovery or disposal.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Handle in accordance with good industrial/food-hygiene practice. Avoid generating dust. Use local exhaust ventilation where dust may be generated in bulk handling.

B. Technical recommendations for the prevention of fires and explosions:

Avoid accumulation of fine dust on surfaces and equipment. Use properly earthed equipment during bulk transfer to minimise static build-up. Keep away from strong oxidising agents and strong alkalis (ester hydrolysis); store away from moisture.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke while handling. Wash hands thoroughly after handling.

D. Technical recommendations to prevent environmental risks:

Avoid uncontrolled discharge to drains, soil or water courses.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| Storage temperature    | Cool, dry place, below 30°C                                               |
| Relative humidity      | Low humidity, in tightly closed containers                                |
| Recommended shelf life | Typically 36 months from date of manufacture in original sealed packaging |

B. General conditions for storage:

Store in a cool, dry, well-ventilated place in tightly closed, moisture-proof packaging, away from direct sunlight, strong oxidisers and strong odours.

7.3 Specific end use(s):

Used as a broad-spectrum antimicrobial preservative (INS/E218) in food, cosmetic and pharmaceutical products. Refer to product-specific technical data sheet for application guidance.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

No substance-specific occupational exposure limit (OEL) has been established under the Factories Act, 1948 (as amended), or by ACGIH/OSHA. As a general nuisance-dust guidance value, an airborne limit of 10 mg/m<sup>3</sup> (inhalable fraction, TWA 8h) for particulates not otherwise classified (PNOC) may be applied as good practice – typical value, refer to current specification sheet.

8.2 Appropriate engineering controls:

Use local exhaust ventilation/dust collection at points of dust generation (bagging, bulk transfer, milling) to minimise airborne dust concentrations.

B. Respiratory protection:

Not normally required under good ventilation. For dusty operations, use a particulate filter mask (P1/P2 or equivalent).

C. Specific protection for the hands:

Protective gloves (nitrile or PVC) recommended for prolonged or repeated handling.

D. Eye and face protection:

Safety glasses with side shields recommended when handling powder.

E. Bodily protection:

Standard food-grade/industrial work clothing in line with applicable GMP/hygiene requirements.

F. Additional emergency measures:

Eyewash station and washing facilities should be available in the work area.

Environmental exposure controls:

No specific measures required beyond good housekeeping.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| Appearance             |                                    |
|------------------------|------------------------------------|
| Physical state at 20°C | Solid (crystalline powder)         |
| Color                  | White                              |
| Odor                   | Odourless to faint, characteristic |
| Odour threshold        | Not established                    |
|                        |                                    |

| Volatility                            |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Boiling point                         | Non-applicable (solid)                                                                                                               |
| Vapour pressure at 20°C               | Negligible                                                                                                                           |
| Evaporation rate                      | Not relevant (solid)                                                                                                                 |
| Product Description                   |                                                                                                                                      |
| Molecular formula                     | C8H8O3                                                                                                                               |
| Molecular weight                      | 152.15 g/mol                                                                                                                         |
| Bulk density                          | Typical value – refer to current specification sheet                                                                                 |
| Boiling point                         | ≈270°C (at reduced pressure; decomposes near atmospheric boiling)                                                                    |
| Solubility in water                   | Slightly soluble in cold water (≈2.5 g/L at 20°C); freely soluble in ethanol, ether and other organic solvents; soluble in hot water |
| Partition coefficient n-octanol/water | Typical value – refer to current specification sheet                                                                                 |
| Melting point/freezing point          | 125–128°C                                                                                                                            |
| Flammability                          |                                                                                                                                      |
| Flash Point                           | Non-applicable (solid)                                                                                                               |
| Flammability (solid, gas)             | Not classified as flammable                                                                                                          |
| Autoignition temperature              | Not established                                                                                                                      |
| Lower / Upper flammability limit      | Not established                                                                                                                      |
| Particle Characteristics              |                                                                                                                                      |
| Median particle size                  | Typical value – refer to current specification sheet                                                                                 |

Values are typical for commercial food/pharma-grade Methyl Paraben and may vary within specification tolerances.

9.2 Other information:

|                           |                                                                                           |
|---------------------------|-------------------------------------------------------------------------------------------|
| Explosive properties      | Not classified; fine dust may present a combustible-dust hazard under specific conditions |
| Oxidising properties      | Not classified                                                                            |
| Corrosive to metals       | Not corrosive                                                                             |
| Decomposition temperature | Decomposes above approximately 270°C                                                      |
| Surface tension           | Not relevant (solid)                                                                      |
| Refraction index          | Not relevant                                                                              |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No reactivity hazards are known under normal conditions of storage, handling and use. May react with strong oxidising agents, generating heat.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions are not expected.

10.4 Conditions to avoid:

| Shock/Friction | Contact with Air | Increase in Temperature                      | Sunlight                        | Humidity                                         |
|----------------|------------------|----------------------------------------------|---------------------------------|--------------------------------------------------|
| Not applicable | Not applicable   | Avoid prolonged exposure to high temperature | Avoid prolonged direct exposure | Avoid contact with moisture (caking/degradation) |

10.5 Incompatible materials:

| Strong Oxidisers | Strong Acids/Alkalis                                        | Moisture                                               |
|------------------|-------------------------------------------------------------|--------------------------------------------------------|
| Avoid contact    | No significant reactivity expected; avoid prolonged contact | Avoid prolonged exposure (hygroscopic/caking tendency) |

10.6 Hazardous decomposition products:

None under normal conditions of storage and use. Thermal decomposition at high temperature may generate oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

This substance has a long history of safe use in the food/pharmaceutical sector. Based on available data, the classification criteria for the health hazard classes below are not met.

A. Ingestion (acute effect):

Acute toxicity classification criteria are not met based on available data. LD50 oral (rat): >8,000 mg/kg (practically non-toxic by the oral route; long history of use as a preservative)

B. Inhalation (acute effect):

Not classified. Inhalation of dust in high concentration may cause mechanical irritation of the respiratory tract.

C. Contact with skin and eyes (acute effect):

Not classified. Prolonged or repeated contact with dust may cause mild, transient mechanical irritation.

D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):

Classification criteria for carcinogenicity, mutagenicity and reproductive toxicity are not met based on available data. IARC: Not listed.

E. Sensitizing effects:

Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

Classification criteria are not met based on available data.

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data.

Product-specific toxicological information:

| Identification                 | Acute Toxicity                                                                                                 | Genus      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------|------------|
| Methyl Paraben<br>CAS: 99-76-3 | LD50 oral (rat): >8,000 mg/kg (practically non-toxic by the oral route; long history of use as a preservative) | Rat (oral) |

SECTION 12: ECOLOGICAL INFORMATION

Not classified as hazardous to the aquatic environment based on available data.

12.1 Toxicity:

| Acute Toxicity                                       | Species        | Genus                |
|------------------------------------------------------|----------------|----------------------|
| LC50: >100 mg/L (96h) – low toxicity (typical value) | Non-applicable | Fish                 |
| EC50: >100 mg/L (48h) – low toxicity (typical value) | Non-applicable | Crustacean (Daphnia) |

12.2 Persistence and degradability:

Expected to be readily biodegradable, consistent with its food/pharma-grade composition and history of use.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate, based on its physicochemical properties.

12.4 Mobility in soil:

| Koc                 | Henry      | Dry Soil          | Moist Soil        |
|---------------------|------------|-------------------|-------------------|
| Low (water-soluble) | Negligible | Moderate mobility | Moderate mobility |

12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria.

12.6 Other adverse effects:

Excessive discharge of concentrated material may locally increase biological oxygen demand (BOD) in water courses.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dispose of waste/residues in accordance with local, state and national regulations. Empty packaging completely before disposal/recycling. Avoid discharge of concentrated product directly into drains or water courses. Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

|                                                          |                                                                         |
|----------------------------------------------------------|-------------------------------------------------------------------------|
| 14.1 UN number                                           | Not assigned – non-dangerous goods                                      |
| 14.2 UN proper shipping name                             | Non-applicable                                                          |
| 14.3 Transport hazard class(es)                          | Not regulated                                                           |
| 14.4 Packing group                                       | N/A                                                                     |
| 14.5 Environmental hazard                                | No                                                                      |
| 14.6 Special precautions for user                        | Non-hazardous for transport; physico-chemical properties: see section 9 |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                                                            |

Transport of dangerous goods by sea (IMDG 41-22):

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| 14.1 UN number                                           | Not assigned – non-dangerous goods |
| 14.2 UN proper shipping name                             | Non-applicable                     |
| 14.3 Transport hazard class(es)                          | Not regulated                      |
| 14.4 Packing group                                       | N/A                                |
| 14.5 Marine pollutant                                    | No                                 |
| 14.6 Special precautions for user                        | Non-hazardous for transport        |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                       |

Transport of dangerous goods by air (IATA/ICAO 2024):

|                                                          |                                    |
|----------------------------------------------------------|------------------------------------|
| 14.1 UN number                                           | Not assigned – non-dangerous goods |
| 14.2 UN proper shipping name                             | Non-applicable                     |
| 14.3 Transport hazard class(es)                          | Not regulated                      |
| 14.4 Packing group                                       | N/A                                |
| 14.5 Environmental hazard                                | No                                 |
| 14.6 Special precautions for user                        | Non-hazardous for transport        |
| 14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code) | Not relevant                       |

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

Permitted as a food preservative (INS/E218) under the Food Safety and Standards Authority of India (FSSAI) regulations, subject to applicable use-level limits. It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances.

Other legislation:

Food Safety and Standards Act, 2006, and the Food Safety and Standards (Food Products Standards and Food Additives) Regulations, 2011, and amendments thereto, as applicable to food-grade use  
The Factories Act, 1948 (Act No. 63 of 1948), as amended by the Factories (Amendment) Act, 1987 (Act 20 of 1987)  
Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 (not applicable – product not classified as hazardous)

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

Not applicable – no GHS hazard statements are assigned to this product.

*This SDS is provided to support safe industrial handling, storage, and transport, notwithstanding the product's non-hazardous classification.*

Advice related to training:

Minimal training is recommended to familiarise staff with good handling/storage practice and with this safety data sheet.

Principal bibliographical sources:

Published GHS classification databases and standard commercial safety data references for Methyl Paraben (CAS 99-76-3); Food Safety and Standards Authority of India (FSSAI) guidance, where applicable to food-grade

use.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | BOD: Biological Oxygen Demand | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50 | PBT: Persistent, Bioaccumulative and Toxic | vPvB: very Persistent and very Bioaccumulative | IARC: International Agency for Research on Cancer | FSSAI: Food Safety and Standards Authority of India

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET