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MATERIAL SAFETY DATA SHEET
MSDS No: MSDS/MPBL/FG-010

Section 1: Product Identification & Company

Common Name	: Meta Phenoxybenzyl alcohol
Synonyms	: 3-Phenoxybenzyl alcohol
Manufacturer / Supplier	: Bharat Rasayan Limited 1501, Vikram Tower, Rajendra Place, New Delhi – 110008, INDIA
Emergency Phones	: +91-11-43661120,1104 Fax 43661100

Section 2: Product Composition

Composition	: 98.50% m/m min.
CAS No.	: 13826-35-2
EINECS No	: 237-525-1,
MF	: $C_{13}H_{12}O_2$
MW	: 200.23

Section 3: Hazard Identification:

Hazard statement: H302	Harmful if swallowed

H400	Very toxic to aquatic life
Precautionary statement; P273	Avoid release to the environment

R-phrase May be Harmful if swallowed.

Eye: May cause eye irritation

Skin: May cause skin irritation

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respirator tract irritation.

Section 4: First – Aid Measures

Eye contact	:	Flush eyes with copious amount of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin Contact	:	Remove contaminated clothing. Wash affected area with soap and water. Get medical aid. Wash clothing before reuse.
Ingestion	:	Never give anything by mouth to an unconscious person. Get medical aid. Do not induce vomiting. If conscious and alert. Rinse mouth and drink 2-4 cupfuls of milk or water.
Inhalation	:	In case of inhalation, carry the victim to fresh air. Keep open all doors and windows. Provide artificial respiration, if needed. Get medical aid.
Note to Physician	:	Treat the victim symptomatically and supportively.

Section 5: Fire & Explosion Data

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective wear. During a fire, irritating and highly toxic gases may be generated like carbon oxides by thermal decomposition or combustion. Will burn if involved in a fire. vapours may be heavier than air. They can spread along the ground and collect in low or confined areas. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media: In case of fire, use water spray, dry chemical, chemical foam, or carbon di oxide.

Flash Point: > 113^0C (closed cup)

Auto-ignition Temperature: Not available

Explosion Limit, Lower: Not available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7: Handling & Storage

Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly
Storage	Store in a tightly closed container. Store in a cool dry, well-ventilated area away from incompatible substances.

Section 8: Personal Protection / Safety

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government
standards such as NIOSH (US) or CEN (EU).

Section 9: Physico-Chemical Data

State	: Liquid
Color	: Colorless to Light Yellow

Boiling Point	: 135 to 140^0C at 0.1hPa-lit.
Flash Point	: 113^{0C}
Specific Gravity	: 1.15

Section 10: Stability & reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Acids, Acid chlorides, Acid anhydrides, excess heat, and strong oxidants.

Incompatibilities with other Materials	: Oxidizing agents.
Hazardous Decomposition Products	: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide
Hazardous Polymerization	: Has not been reported.

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 1.496 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Lungs, Thorax, or Respiration:Dyspnea.

LD50 Dermal - rabbit - 10.000 mg/kg

Remarks: Behavioral:Muscle weakness. Behavioral:Ataxia. Prolonged skin contact may cause skin irritation and/or dermatitis.

Skin corrosion/irritation

Serious eye damage/eye irritation

Eyes - rabbit - Mild eye irritation

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

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.

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been
thoroughly investigated.

Section 12: Ecological Information

Toxicity

Toxicity to daphnia and
other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - > 0,05 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Very toxic to aquatic life. no data available

Section 13: Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensedprofessional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product

Section 14: Transportation Information

14.1 UN number

ADR/RID: 3082 IMDG: 3082 IATA: 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-Phenoxybenzylic alcohol)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-Phenoxybenzylic alcohol)

IATA: Environmentally hazardous substance, liquid, n.o.s. (3-Phenoxybenzylic alcohol)

14.3 Transport hazard class (es)

ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

15.2 Chemical Safety Assessment

no data available

16. OTHER INFORMATION

The information provided in this MSDS is of general nature not specific for a particular purpose or situation, and believed to be correct and faithful. **Bharat Rasayan Limited** does not make any warranty or guarantee of any kind regarding fitness or completeness of information. **Bharat Rasayan Limited** disclaims any liability to the result(s) obtained or arising out of any use of the product or reliance or data/information contained in this MSDS.

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