MATERIAL SAFETY DATA SHEET

PROPYL PARABEN

1. CHEMICAL PRODUCT IDENTIFICATION

Field	Details
Trading Name	Propyl Paraben

2. COMPOSITION / INFORMATION ON INGREDIENTS

Parameter	Value
Substance Synonym	Propyl-Para Hydroxy Benzoate
Chemical Name	4-Hydroxy benzoic Acid propyl ester, Propyl Paraben; Benzoic Acid, 4-Hydroxy-, Propyl ester
Uses	Used in many cosmetics such as creams, lotions, shampoos and bath products. Acts as an antifungal and antimicrobial agent.
CAS No.	94-13-3
EC No.	202-307-7
Molecular Weight	180.2 g/mol
Impurity Contributed to Hazard	N/A
EINECS No.	202-307-7
Molecular Formula	C10H12O3

3. HAZARD IDENTIFICATION

Potential Acute Health Effects:

Avoid inhalation. Avoid eye contact (irritant), ingestion. Avoid skin contact (irritant).

Potential Chronic Health Effects:

Avoid inhalation.

Avoid eye contact (irritant).

Avoid skin contact (irritant), ingestion.

Carcinogenic Effects: Not available.

Mutagenic Effects: Not available.

Teratogenic Effects: Not available.

Developmental Toxicity: Not available.

The substance is toxic to lungs.

Repeated or prolonged exposure of the substance can produce target organ damage.

4. FIRST AID MEASURES

Route	Measures
Eyes Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	Wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap; cover skin with an anti-bacterial cream. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover irritated skin with an emollient. If irritation persists, seek medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Most Important Symptoms/Effects	The substance is toxic to lungs. Repeated or prolonged exposure can produce target organ damage.
Indication of Prompt Medical Attention	N/A

5. FIRE AND EXPLOSION DATA

Parameter	Value
Flammability of the Product	May be combustible at high temperature.
Auto Ignition Temperature	Not available.
Flash Point	124.6°C
Flammable Limits	Not available.
Products of Combustion	Carbon oxides (CO, CO2). Some metallic oxides.
Fire Hazards in Presence of Various Substances	Extremely flammable in presence of open flames and sparks.
Risk of Explosion (Mechanical Impact)	Not available.

Risk of Explosion (Static Discharge)	Not available.
Small Fire	Use DRY chemical powder.
Large Fire	Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire/Explosion Hazards	Not available.

6. ACCIDENTAL RELEASE MEASURES

Parameter	**Value**
Person Related Precautionary Measures	Avoid substance contact. Avoid generation of dust; do not inhale dust. Ensure supply of fresh air in enclosed rooms.
Environmental Protection Measures	Do not allow to enter sewerage system.
Recuperation/Cleaning Procedures	Forward for disposal. Clean up affected area.
Small Spill	Use appropriate tools to put the spilled solid into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Parameter	**Value**
Precautions During Handling	Keep away from heat and sources of ignition. Empty containers pose a fire risk; evaporate residue under a fume hood. Do not ingest. Do not breathe dust. Avoid eye contact; wear suitable protective clothing where ventilation is insufficient; wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or label.
Storage	Keep container in a dry place at room temperature. Keep tightly closed in a well ventilated place. Store combustible material away from extreme heat and strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Parameter	**Value**

Engineering Controls	Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits. If operations generate dust, fume or mist, use ventilation to keep exposure below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator (approved/certified). Gloves.
Personal Protection (Large Spill)	Splash goggles. Full suit. Dust respirator. Boots. Gloves. Self-contained breathing apparatus should be used to avoid inhalation. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.
Exposure Limits	Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Parameter	**Value**
Physical State and Appearance	Crystalline Powder
Odor	Characteristic
Molecular Weight	180.2 g/mol
Color	White
pH (0.1% w/v Solution in Water)	6.7
Boiling Point	294°C
Melting/Freezing Point	>99°C
Flash Point	124.6°C
Flammability	Product is not flammable
Specific Gravity	1.063 (Water = 1)
Vapor Pressure at 25°C	5.55×10^{-4} mmHg
Vapor Density at 20°C	1.063 gm/cm³
Dispersion Properties	See solubility in water, methanol, diethyl ether, acetone.
Solubility	Soluble in methanol, diethyl ether, acetone. Very slightly soluble in cold water, hot water.

10. STABILITY AND REACTIVITY DATA

Parameter	**Value**
Reactivity	No details have been found.

Stability	The product is stable under normal pressures and temperatures.
Instability Temperature	Not available.
Conditions of Instability	Avoid strong heating and strong oxidants.
Incompatibility Materials	Avoid contact with alkali. Normally stable, hygroscopic.
Hazardous Decomposition Products	Fire or high temperature creates very toxic gases/vapours/fumes of carbon monoxide (CO) and carbon dioxide (CO2).
Corrosivity	Non-corrosive in presence of glass, steel, stainless steel (304), stainless steel (316).
Special Remarks on Reactivity	Not available.
Special Remarks on Corrosivity	Not available.
Polymerization	No.

11. TOXICOLOGICAL INFORMATION

Parameter	**Value**
LD50 Oral (Rat) No Exposure	Acute oral toxicity (LD50): less than 3000 mg/kg [Oral Mouse]
Irritation/Corrosion	Skin: Slightly hazardous. Eye: Hazardous. Respiratory tract: Very hazardous in case of inhalation, ingestion; toxic to lungs.
Sensitization	Skin disorders and allergies
Germ Cell Mutagenicity	No biologically relevant genotoxic activity
Carcinogenicity	No experimental or epidemiological evidence exists to justify classification for carcinogenic activity.
Reproductive Toxicity	No experimental or epidemiological evidence exists to justify classification for reproductive or developmental toxicity.
Specific Target Organ Toxicity	No experimental or epidemiological sufficient evidence for specific target organ toxicity.

12. ECOLOGICAL INFORMATION

Parameter	**Value**
Eco Toxicity	Not available.
BOD5 and COD	> 50%

Persistence and Biodegradation	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise. Biodegradation: >95% (closed bottle test). Readily biodegradable.
Bio Accumulative Potential	The products of degradation are more toxic.
Results of PBT and vPvB Assessment	Decomposes and burns to form smoke, carbon monoxide and carbon dioxide. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard. No further information has been found.

13. DISPOSAL CONSIDERATION

Methods of Waste Disposal of Product:

There are no uniform EC Regulations for the disposal of chemicals or residues; chemical residues generally count as special waste. Disposal is regulated in EC member countries through corresponding laws and regulations. Contact the authorities in charge or approved waste disposal companies for advice on disposing of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated as household waste or recycled.

14. TRANSPORT INFORMATION

UN-Number (ADR, ADN, IMDG, IATA): --

UN Proper Shipping Name (ADR, ADN, IMDG, IATA): Not regulated material for air

Transport Hazard Class(es) (ADR, ADN, IMDG, IATA): --

Packing Group (ADR, IMDG, IATA): --

Environmental Hazards: Not regulated material for air

Special Precautions for User: Not applicable.

Transport in Bulk (Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

15. OTHER REGULATORY INFORMATION

Parameter	**Value**
European/International Regulations	Federal and state regulations: TSCA 8(b) inventory: Propyl Paraben
Hazard Symbols	XN
R-Phrases	R22 - Harmful if swallowed. R36 - Irritating to eyes.

S-Phrases	S24 - Avoid contact with skin. S25 - Avoid contact with eyes. S24/26/39 - Avoid contact with skin; in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.
WHMIS (Canada)	Not controlled under WHMIS (Canada)
DSCL (EEC)	R36 - Irritating to eyes.
HMIS Health	2 (Moderate Hazard)
HMIS Flammability	1 (Slight Hazard)
HMIS Physical Hazard	0 (Minimal Hazard)
HMIS Personal Protection	E - Gloves, splash goggles, dust respirator
NFPA Health	2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA Flammability	1 - Must be preheated before ignition can occur.
NFPA Reactivity	0 - Normally stable, even under fire exposure conditions, and not reactive with water.
Protective Equipment	Gloves. Lab coat. Dust respirator (approved/certified equivalent). Splash goggles.

16. MANUFACTURER / SUPPLIER DETAILS

Field	**Details**
Name	Cosmo Chemistry India Pvt. Ltd.
Address	Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat – 395006
Phone	+91 7984584838
Email	info@cosmochemistryindia.com

17. OTHER INFORMATION

Parameter	**Value**
References	Not available
Other Special Considerations	Not available

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