MATERIAL SAFETY DATA SHEET

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1- Chemical Product Information and Company Identification.

Product Name: : 4-Aminophenol reference standard, AnStan®.
Synonym: : 4-Hydroxyaniline.
Product code: : BS14898.
CAS Number: : 123-30-8
Company Name: : Briti Scientific.
Company Address: : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055. Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
123-30-8	4-Hydroxyaniline.	C_6H_7NO.

Section 3- Hazards Identification.

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Acute oral toxicity: Category 4
Acute Inhalation Toxicity - Dusts and Mists: Category 4
Germ Cell Mutagenicity: Category 2

Label Elements

Signal Word: Warning.

Hazard Statements

Suspected of causing genetic defects.
Harmful if swallowed or if inhaled.

Precautionary Statements

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use personal protective equipment as required.

Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.

Response

IF exposed or concerned: Get medical attention/advice.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.

Storage: Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects.

Section 4- First Aid Measures.

General Advice: If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects: None reasonably foreseeable.

Notes to Physician: Treat symptomatically.

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Flash Point: 189 °C / 372.2 °F.

Method - No information available.

Autoignition Temperature: 250 °C / 482 °F.

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous Combustion Products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO_2).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

Section 6- Accidental Release Measures.

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Methods for Containment and Clean Up:

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

Section 7- Handling and Storage.

Handling: Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Store under an inert atmosphere. Incompatible Materials. Strong oxidizing agents.

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures: Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or EuropeanStandardEN166.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:
Handle in accordance with good industrial hygiene and safety practice

Section 9- Physical and Chemical Properties.

Appearance: White to light yellow to light red powder to crystal.
Odor: No information available.
Odor Threshold: No information available.
pH: No information available.
Melting Point/Range: 187 °C.
Boiling Point/Range: 284 °C.
Flash Point: No information available.
Evaporation Rate: No information available.
Flammability (solid,gas): Not applicable
Flammability or explosive limits
Upper No information available.
Lower No information available.
Vapor Pressure: No information available.
Density 1.29 g/cm^3.
Solubility Soluble in DMSO.
Partition coefficient; n-octanol/water: No data available.
Autoignition Temperature: 250 °C / 482 °F.
Decomposition Temperature: > 284 °C.
Viscosity: No data available.
Molecular formula: C_6H_7NO.
Molecular Weight: 109.13 g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available.
Stability: Sensitivity to light. Air sensitive.
Conditions to Avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO_2).
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

Section 11- Toxicological Information.

Acute Toxicity
Product Information: No acute toxicity information is available for this product.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
p-Aminophenol	LD50 = 375 mg/kg (Rat)	LD50 > 8000 mg/kg(Rabbit)	LC50 > 5.91 mg/m3 (Rat)1 h

Toxicologically Synergistic Products: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: No information available.

Sensitization: No information available.

Mutagenic Effects: Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard: No information available.

Symptoms / effects, both acute and delayed: No information available.

Endocrine Disruptor Information: No information available.

Other Adverse Effects: The toxicological properties have not been fully investigated.

Section 12- Ecological Information.

Ecotoxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and Degradability: Persistence is unlikely.

Bioaccumulation/ Accumulation: No information available.

Mobility: Will likely be mobile in the environment due to its water solubility.

Section 13- Disposal Considerations.

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transport Information.

DOT

UN-No: UN2512

Proper Shipping Name: AMINOPHENOLS

Hazard Class: 6.1

Packing Group: III

TDG

UN-No: UN2512

Proper Shipping Name: AMINOPHENOLS
Hazard Class: 6.1
Packing Group: III

IATA

UN-No: UN2512
Proper Shipping Name: AMINOPHENOLS
Hazard Class: 6.1
Packing Group: III

IMDG/IMO

UN-No: UN2512
Proper Shipping Name: AMINOPHENOLS
Hazard Class: 6.1
Packing Group: III

Section 15- Regulatory Information.

Legend:
TSCA - Toxic Substances Control Act, (40 CFR Part 710)
X - Listed
'-' - Not Listed
TSCA 12(b) - Notices of Export Not applicable
U.S. Federal Regulations
SARA 313: Not applicable.
SARA 311/312 Hazard Categories See section 2 for more information.
CWA (Clean Water Act): Not applicable.
Clean Air Act: Not applicable.
OSHA - Occupational Safety and Health Administration: Not applicable.
CERCLA: Not applicable
California Proposition 65: This product does not contain any Proposition 65 chemicals.

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.