

# **MATERIAL SAFETY DATA SHEET**

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## 1- Chemical Product Information and Company Identification.

**Product Name:** : D-Proline reference standard, Anstan<sup>®</sup>.

Synonym: : H-D-Pro-OH
Product code: : BS13964.

CAS Number: : 344-25-2.

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 344-25-2. H-D-Pro-OH.  $C_5H_9NO_2$ .

### **Section 3- Hazards Identification.**

#### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Label Elements**

None required.

### **Hazards not otherwise classified (HNOC)**

None identified.

### **Section 4- First Aid Measures.**

**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: No information available.

**Notes to Physician:** Treat symptomatically.









**USA:** #1004, Boston, Massachusetts, 02116, United States. **India:** Jeedimetla, Hyderabad-500 055, Telangana.



## **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: No information available.
 Method - No information available.
 Autoignition Temperature: No information available.

**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** 

Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products** 

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### **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 0 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:** Should not be released into the environment. See Section 12 for additional Ecological Information.

#### 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. 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**: None under normal use conditions.

**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: No protective equipment is needed under normal use conditions.

**Hygiene Measures:** 

Handle in accordance with good industrial hygiene and safety practice.

## **Section 9- Physical and Chemical Properties.**

Appearance: White powder to crystal.

Odor: No information available.

Odor Threshold: No information available.

**pH:** 6.3 100g/L (25°C).

Melting Point/Range: 223 °C.

Boiling Point/Range: No information available.

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: 1.36 g/cm³.
Soluble in water.

Partition coefficient; n-octanol/water: No data available.

Autoignition Temperature: No data available.

Decomposition Temperature: No data available.

Viscosity: No data available.

Molecular formula:  $C_5H_9NO_2$ . Molecular Weight 133.10 g/mol.

### Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available.

Stability: Stable under normal conditions.











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<sub>2</sub>).

**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** 

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: No information available.

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:** No information available.

Persistence and Degradability: Soluble in water Persistence is unlikely based on information

available.

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: Not regulatedTDG: Not regulatedIATA: Not regulatedIMDG/IMO: Not regulated

## **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.







