



MATERIAL SAFETY DATA SHEET

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Issue Date:

<u>1- Chemical Product Information and Company Identification.</u>		
Product Name:	: D-Valine reference standard, Anstan [®] .	
Synonym:	: D-2-Amino-3-methylbutyric acid; Val.	

Product code: : BS13967. CAS Number: : 640-68-6. **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
640-68-6.	H-D-Val-OH.	$C_{5}H_{11}NO_{2}.$

Section 3- Hazards Identification.

Classification Classification under 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.



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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: Vapours may form explosive mixtures with air. **Hazardous Combustion Products** Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). **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	0	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. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Protect from light.



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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.

White powder solid.		
Odourless.		
No information available.		
No information available.		
314 °C.		
No information available.		
No information available.		
No information available.		
: Not applicable.		
ve limits:		
No information available.		
No information available.		
No information available.		
ensity: 1.2000 g/cm ³ .		
Soluble in water.		
octanol/water: No data available.		
re: No data available.		
Decomposition Temperature: No data available.		
No data available.		
$C_5H_{11}NO_2$.		
117.15 g/mol.		

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available Stability: Stable under normal conditions.



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Conditions to Avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition Incompatible Materials: Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂).

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. See actual entry in RTECS for complete information.

Section 12- Ecological Information.

Ecotoxicity: Do not empty into drains.

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.



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Section 14- Transport Information.

DOT Not regulated. TDG Not regulated. IATA: Not regulated. IMDG/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.



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