

Material Safety Data Sheet (MSDS)

Product Name: Valine

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Chemical Name:** Valine
- **Synonyms:** L-Valine, 2-Amino-3-methylbutanoic acid
- **CAS Number:** 72-18-4
- **Molecular Formula:** $C_5H_{11}NO_2$
- **Molecular Weight:** 117.15 g/mol

2. Composition / Information on Ingredients

- **Valine (L-Valine):** $\geq 99\%$ purity
- **Impurities:** None significant

3. Hazards Identification

- **GHS Classification:** Not classified as hazardous

- **Potential Health Effects:**

- Eye: May cause slight irritation
- Skin: May cause minor irritation upon prolonged contact
- Inhalation: Dust may cause mild respiratory irritation
- Ingestion: Generally safe in small quantities

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes
- **Skin Contact:** Wash thoroughly with soap and water
- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist
- **Ingestion:** Rinse mouth with water; consult a physician if necessary

5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam
- **Special Hazards:** Carbon oxides may be formed during combustion
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust inhalation; use protective gloves and mask
- **Environmental Precautions:** Prevent material from entering drains or water bodies
- **Cleanup Methods:** Sweep up and place in a suitable container for disposal

7. Handling and Storage

- **Handling:** Avoid generating dust; handle in well-ventilated areas
- **Storage:** Store in a cool, dry, and ventilated area, away from strong oxidizing agents
- **Packaging:** Keep container tightly closed

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established
- **Engineering Controls:** Use local exhaust ventilation to minimize dust
- **Personal Protective Equipment (PPE):**
 - Gloves: Chemical-resistant
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask if necessary

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Melting Point:** 298-300°C
- **Solubility:** Soluble in water, slightly soluble in ethanol
- **pH:** 5.5–6.5 (1% aqueous solution)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatibility:** Strong oxidizing agents
- **Hazardous Decomposition Products:** CO, CO₂, NO_x upon burning
- **Conditions to Avoid:** High humidity and moisture

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Chronic Effects:** No known chronic effects
- **Irritation:** Mild skin and eye irritant

12. Ecological Information

- **Persistence and Degradability:** Biodegradable
- **Mobility:** Soluble in water, may disperse in aquatic systems
- **Ecotoxicity:** Low toxicity to aquatic organisms

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
- Avoid release into the environment

14. Transport Information (*Detailed*)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** Not applicable
- **Transport Labels Required:** None
- **Special Transport Precautions:**
 - Transport in dry, closed containers
 - Avoid exposure to moisture and high temperatures
 - Handle carefully to prevent spillage
- **Mode of Transport:** Suitable for road, rail, air, and sea transport without restrictions
- **Emergency Procedures in Transit:** In case of spillage, isolate the area, avoid inhalation of dust, sweep up, and dispose of according to local regulations

15. Regulatory Information

- Not classified as hazardous under OSHA, EU, or Indian regulations
- Complies with REACH and other international chemical safety regulations

16. Other Information

- **Disclaimer:** The information provided is based on current knowledge and is intended to describe the product for health, safety, and environmental requirements. It should not be considered a guarantee of any specific properties.
- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.