MATERIAL SAFETY DATA SHEET

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Section 1 - Product and Company Information Product Name **Z-D-NORLEUCINE** Product Number 96940 Brand FLUKA Sigma-Aldrich Company Address 3050 Spruce Street SAINT LOUIS MO 63103 US Technical Phone: 800-325-5832 Fax: 800-325-5052 314-776-6555 Emergency Phone: Section 2 - Composition/Information on Ingredient Substance Name CAS # SARA 313 N-CBZ-D-NORLEUCINE 15027-14-2 No Formula C14H19NO4 Section 3 - Hazards Identification For additional information on toxicity, please refer to Section 11. Section 4 - First Aid Measures Section 5 - Fire Fighting Measures FLASH POINT N/A AUTOIGNITION TEMP N/A FLAMMABILITY N/A Section 6 - Accidental Release Measures Section 7 - Handling and Storage Section 8 - Exposure Controls / PPE Section 9 - Physical/Chemical Properties Appearance Color: White Form: Powder

Property	Value
Property Molecular Weight pH BP/BP Range MP/MP Range Freezing Point Vapor Pressure Vapor Density Saturated Vapor Conc. Bulk Density Odor Threshold Volatile% VOC Content Water Content Solvent Content Evaporation Rate Viscosity Surface Tension Partition Coefficient	Value 265.3 AMU N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Decomposition Temp.	N/A
Flash Point	N/A
Explosion Limits Flammability	N/A N/A
Autoignition Temp	N/A
Refractive Index Optical Rotation	N/A N/A
Miscellaneous Data	N/A N/A
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

Section 11 - Toxicological Information

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Section 14 - Transport Information

DOT

Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

UNITED STATES REGULATORY INFORMATION SARA LISTED: No

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CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in
accordance with the hazard criteria of the CPR, and the MSDS
contains all the information required by the CPR.
DSL: No
NDSL: No
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Section 16 - Other Information

DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2010 Sigma-Aldrich Co. License granted to make unlimitedpaper copies for internal use only.