

Safety Data Sheet

Date of revision: 2021/02/26

1. Product and company identification

Product name	DL-Leucine
Name of manufacturer	Yoneyama Yakuhin Kogyo Co., Ltd.
Address	2-3-11 Doshomachi, Chuo-ku, Osaka, 541-0045, Japan
Contact for Information	Sales Division
Telephone number	06-6231-3555
Fax number	06-6223-1093
SDS No.	29691

2. Hazards identification

GHS Classification	Does not meet the classification criteria.
GHS Label Elements	
Symbol	—
Signal word	—
Hazard statement	—

3. Composition/information on ingredients

Substance/Mixture	Substance
Chemical name or commercial name	DL-Leucine
Synonyms	—
Chemical formula	$C_6H_{13}O_2N$
Numerical identifier	CAS RN: 328-39-2
Ingredients and composition	100%

4. First aid measures

INHALATION	Get medical advice/attention if you feel unwell.
SKIN CONTACT	Rinse skin with water [or shower] promptly. If skin irritation occurs: Get medical advice/attention.
EYE CONTACT	Get medical advice/attention if you feel unwell. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
INGESTION	Rinse mouth. Get medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media	powder, alcohol-resistant foam, carbon dioxide, water
Unsuitable extinguishing media	No data
Specific hazards arising from chemical	No data
Particular fire fighting	No data
Special protective actions for fire-fighters	Firefighting should be done upwind and avoid inhalation of toxic fumes. Depending on the risk, wear appropriate protective equipment.

6. Accidental release measure

Personal precaution, protective equipment and emergency procedures	Workers should wear appropriate protective equipment to avoid contact with eyes and skin and inhalation of vapour or mist.
Environmental precautions	Be careful not to discharge it into rivers, etc. and cause environmental impact.
Removal measure	After collecting the dust in a way that does not scatter, wash in thoroughly with water. No data

7. Handling and storage

Precautions for safe handling	
Technical measures	Workers should wear appropriate protective equipment. Provision of very good ventilation in the working area.
Precautions for safe handling	Do not eat, drink or smoke when using this product. Prevent material from entering sewers or confined spaces.
Incompatible materials	strong oxidizing substances
Hygiene measures	Rinse and then wash skin with water and soap.
Storage	
Conditions for safe storage	Keep away from direct sunlight, high temperature and high humidity and store tightly closed.
Packaging compatibilities	polypropylene, polyethylene

8. Exposure controls/personal protection

Exposure limits	
ACGIH	—

Equipment measures	
Protective equipment	For handling, seal as much as possible or use very good ventilation.
Respiratory protection	Air – supplied or self – contained NIOSH approved breathing apparatus.
Hand protection	Impervious protective gloves.
Eye protection	Safety goggles.
Skin protection	Protective clothing, protective boots.
Special notes	No data
9. Physical and chemical properties	
Physical state	crystal powder
Odor	white
Melting point/Freezing point	293°C (decomposition)
Boiling point	No data
Combustible	No data
Upper/lower explosive limits	No data
Flash point	No data
Auto-ignition temperature	No data
Decomposition temperature	293°C
pH	No data
Viscosity	No data
Solubility	2.4g/100g (25°C)
Partition coefficient: n-octanol/water	No data
Vapor pressure	No data
Specific gravity	No data
Vapor density	No data
Relative evaporation rate	No data
10. Stability and reactivity	
Reactivity	Stable under normal handling.
Chemical stability	Stable under normal handling.
Possibility of hazardous reaction	No data
Condition to avoid	sunlight, high temperature, high humidity
Incompatible materials	strong oxidizing substances
Hazardous decomposition products	No data
11. Toxicological information	
Acute toxicity	No data
Skin corrosion/irritation	No data
Eye damage/irritation	No data
Respiratory sensitization and Skin sensitization	No data
Germ cell mutagenicity	No data
Carcinogenicity	No data
Reproductive toxicity	No data
Specific target organ toxicity (single exposure)	No data
Specific target organ toxicity (repeated exposure)	No data
Aspiration hazard	No data
12. Ecological information	
Hazardous to the aquatic environment	No data
Persistence and degradability	No data
Bioaccumulative potential	No data
Mobility in soil	No data
Hazardous to the ozone layer	Not enumerated in Montreal Protocol on Substances that Deplete the Ozone Layer.
13. Disposal considerations	
Residual disposal	If there is no way of recycling it must be disposed of in compliance with the respective national and local regulation. It consigns it to the industrial waste disposal trader who has permission.
14. Transport information	
UN Number	—
UN proper shipping name	—
Transport hazard class	—
Packing group	—
Additional identification	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not leaking. Prevent the product containers from falling over or falling.

15. Regulatory information

Please apply to the regulatory control in each country.

16. Other information

References

Global Harmonized System of Classification and Labelling of  
Chemicals(GHS) Sixth revised edition  
National Institute of Technology and Evaluation(NITE)  
Hazardous Substances Data Bank(HSDS)

Attention

The Safety Data Sheet (SDS) is prepared based on JIS Z7253. All  
information contained herein is given in good faith and no warranty  
expressed or implied is made to its accuracy.  
The recommended industrial hygiene and safe handling procedures are  
believed to be generally applicable.

However, each user should review these recommendations and  
determine whether they are appropriate.