

SAFETY DATA SHEET

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Version 02

PRODUCT	L-VALINE
CAS NO.	72-18-4
MANUFACTURER	DAESANG Corporation

IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING		
Product identifier	Product name CAS number EC number Index number Registration number	L-Valine 72-18-4 200-773-6 Not applicable Not applicable
Relevant identified uses	Applications	Food supplement
Details of the supplier	Names Address Tel/Fax Contact email	Daesang Corporation 26, Cheonho-daero, Dongdaemun-gu, Seoul, South Korea Tel: +82 2 2657 5371 & Fax: +82 2 2657 5333 bio@daesang.com
Emergency telephone no.	Telephone	+1 201 488 4010 for USA & Canada +31 20 640 6080 for Europe +82 2 2657 5371 for the rest countries
2. HAZARDS IDENTIFICATION		
Classification of the substance	Physical hazards Health hazards Environmental hazards	Not applicable Not applicable Not applicable
Label elements		Not applicable
Potential effects		May cause eye and skin irritation It will increase the biological oxygen demand (BOD) of water
3. COMPOSITION INFORMATION ON INGREDIENTS		



Substance	Name of substance CAS number EC number Index number Concentration	L-Valine 72-18-4 200-773-6 - 100%	
4. FIRST AID M	EASURES		
Description of first aid measures	After eye contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.	
	After skin contact	No known effect on skin contact, rinse with water for a few minutes.	
	After inhalation	Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and contact a medical doctor.	
	After ingestion	Wash out mouth water with water Contact a medical doctor for gross ingestion as precaution	
Most important sy both acute and de	mptoms and effects, elayed	Not determined	
	mmediate medical cial treatment needed	Not determined	
5. FIRE FIGHTI	5. FIRE FIGHTING MEASURES		
Extinguishing me	dia	Water, foam, dry powder, or carbon dioxide	
Special hazards arising from the substance or mixture		May form flammable dust/air mixtures; Release nitrous oxides when burning	
Advice for firefighters		Fire fighting and others exposed to products of combustion must wear self-contained breathing apparatus Equipment should be thoroughly decontaminated after use	
6. ACCIDENTA	L RELEASE MEASURES		
Personal precautions, protective equipment and emergency procedures		None	
Environmental pro	ecautions	None	
Methods and material for containment and cleaning up		In case of spill, do not blow material Sweep up and place in a bag for disposal Flush residual spill area with water	
Reference to other	er sections	None	
7. HANDLING A	7. HANDLING AND STORAGE		
Precautions for sa	afe handling	Appropriate measures should be taken to minimize dust generation	
Conditions for safe storage, including any incompatibilities		Store in a cool and dry place Recommended storage temperature is 15~30°C Keep container tightly closed and inner bag sealed	
Specific end use(s)	Not applicable	



Control parameters		Not applicable
Engineering Con		Not available
Personal Protection		Respiratory protection : Not required. Use approved nuisance masks if needed : Not required. Use approved goggles or eye protection if needed : No special requirements : Ordinary ventilation
9. PHYSICAL AND CHEMICAL PROPERTIES		
	Physical state	White crystal or crystalline powder
	Colour	White
	Odour	Not determined
	Odour threshold	Not determined
	рН	5.0 – 7.0
	Melting point	295-300°C
	Boiling point	Not determined
	Flash point	Not determined
	Evaporation rate	Not determined
	Flammability	Not determined
	Auto flammability	Not determined
Information of basic physical	Upper/lower flammability or explosive limits	Not determined
and chemical	Explosive properties	Not determined
properties	Oxidising properties	Not determined
	Vapour pressure	Not determined
	% volatile by volume	Not determined
	Vapour density	Not determined
	Relative density	Not determined
	Solubility in water	Partially soluble in cold water. Very slightly soluble in methano acetone.
	Other solvents	Not determined
	Partition coefficient (n-octanol/water)	Not determined
	Decomposition temperature	Not determined
	Viscosity	Not determined
Other information	າ	No other information



Reactivity	Not determined	
Chemical stability	Stable under recommended storage conditions	
Possibility of hazardous reactions	Hazard polymerization will not occur	
Conditions to avoid	Not determined	
Incompatible materials	Strong oxidizers	
Hazardous decomposition materials	Nitrogen oxides, Carbon monoxide and Carbon dioxide	
11. TOXICOLOGICAL INFORMATION		
Acute toxicity	May be harmful if inhaled May be harmful if swallowed	
Skin corrosion/irritation	May cause skin irritation May be harmful if absorbed through the skin	
Serious eye damage/irritation	May cause eye irritation	
Respiratory or skin sensitization	Not determined	
Germ cell mutagenicity	Not determined	
Carcinogenicity	Not determined	
Reproductive toxicity	Not determined	
STOT-single exposure	May be irritating to mucous membranes and upper respiratory tract	
STOT-repeated exposure	Not determined	
Aspiration hazard	Not determined	
RTECS No.	YV9361000	
12. ECOLOGICAL INFORMATION		
Toxicity	Not determined	
Persistence and degradability	Not determined	
Bioaccumulative potential	Not determined	
Mobility in soil	Not determined	
Results of PBT and vPvB assessment	Not determined	
Other adverse effects	Not determined	
13. DISPOSAL CONSIDERATIONS		
Waste treatment methods	Contact a licensed professional waste disposal service to dispose of this material Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber	
List of CER codes	Allocation of the waste code numbers according EC Directive 91/692/EEC must be realized under considerations of existing sector specifics and processes	
14. TRANSPORT INFORMATION		
UN Number	None	



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Transport hazard classes	None
Packing group	None
Environmental hazards	None
Land transport (ADR/RID)	None
Onland waterway craft (ADN/ADNR)	None
Marine transport (IMDG)	None
Air transport (IATA)	None
Special precautions for user	None
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not determined

No special requirements for transport according to international regulations. For more information, contact Daesang Europe b.v.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	US Federal Regulations TSCA 8(b) inventory : L-Valine Other Regulations : Not available
Chemical safety assessment	Not applicable

16. OTHER INFORMATION

This information is based on our present knowledge and is provided according to the relevant EC and national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product. In no event will Daesang Corp. be responsible for damages of any nature whatsoever resulting from the use of or reliance on information.