

SDS (SAFETY DATA SHEET)

Date of issue : FEB 02, 2023

Version 01

According to Regulation (EC) No. 1907/2006
(amended by Regulation (EU) No. 2020/878)

PRODUCT	L-PHENYLALANINE
CAS NO.	63-91-2
MANUFACTURER	DAESANG Corporation

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY UNDERTAKING		
Product identifier	Product name CAS number EC number REACH Registration No. Index number Registration number Chemical Formula Molecular Weight	L-Phenylalanine 63-91-2 200-568-1 01-2120108916-54-0001 Not applicable Not applicable C ₉ H ₁₁ NO ₂ 165.19
Relevant identified uses	Applications	No data available
Details of the supplier	Names Address Tel/Fax Contact email	Daesang Corporation 120, Changgyeonggung-ro, Jongno-gu, Seoul, Korea Tel: +82 2 2657 5371 & Fax: +82 2 2657 5333 bio@daesang.com , info@daesangeurope.com
Emergency telephone no.	Telephone	Please contact your local emergency services.
2. HAZARDS IDENTIFICATION		
Classification of the substance		Not dangerous according to the regulation (EC) n°1272/2008 (CLP) and its amendments
Label elements	Hazard pictograms Signal word Hazard statements Precautionary statements	Not applicable (according to the regulation (EC) n°1272/2008 (CLP) and its amendments)
Other hazards		According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB. According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.
3. COMPOSITION / INFORMATION ON INGREDIENTS		

Substance	Name of substance CAS number EC number Index number Concentration	L-Phenylalanine 63-91-2 200-568-1 Not applicable 100%
<p>In accordance with the product knowledge, no nanomaterials have been identified.</p> <p>The substance does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table.</p>		
4. FIRST AID MEASURES		
When in doubt or if symptoms are observed, get medical advice.		
Description of first aid measures	After eye contact	In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
	After skin contact	Wash with soap and water
	After inhalation	No special measures are necessary. Provide fresh air.
	After ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
Self-protection of the first aider:		No special measures are necessary.
Most important symptoms and effects, both acute and delayed		The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.
Indication of any immediate medical attention and special treatment needed		Notes for the doctor: Treat symptomatically.
5. FIRE FIGHTING MEASURES		
Extinguishing media		Suitable extinguishing media: Foam. Extinguishing powder. Carbon dioxide (CO ₂). Sand. Unsuitable extinguishing media: Strong water jet.
Special hazards arising from the substance or mixture		Formation of toxic gases is possible during heating or in case of fire.
Advice for firefighters		Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information	<p>Do not inhale vapors and fumes. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures	No special measures are necessary.
Environmental precautions	Ensure that waste is collected and contained.
Methods and material for containment and cleaning up	<p>Treat the recovered material as prescribed in the section on waste disposal. Collect in closed and suitable containers for disposal.</p>
Reference to other sections	<p>Safe handling: see section 7. Disposal: see section 13. Personal protection equipment: see section 8.</p>
7. HANDLING AND STORAGE	
Precautions for safe handling	<p>Protective measures: No special measures are necessary.</p> <p>Advices on general occupational hygiene: Wash hands before breaks and after work. Remove contaminated, saturated clothing.</p>
Conditions for safe storage, including any incompatibilities	<p>Keep container tightly closed in a dry, cool, and well-ventilated place. Keep container in upright position in order to prevent leakage.</p>
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Control parameter	<p>Occupational exposure limits: Does not contain substances above concentration limits fixing than occupational exposure limit.</p> <p>Biological limit values: Not available</p> <p>Exposure limits at intended use: Not available</p> <p>Remark: Not available</p>

Exposure controls	Appropriate engineering controls:	See section 7. No additional measures necessary.
	Respiratory protection	Suitable respiratory protection apparatus: No data available.
	Skin protection	Hand protection: Suitable gloves type: No special measures are necessary. Body protection: Suitable protective clothing: No special measures are necessary.
	Eye/face protection	Suitable eye protection: No special measures are necessary.
	Environmental exposure controls:	No special measures are necessary.
	Consumer exposure controls:	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information of basic physical and chemical properties	Physical state	Crystal or crystalline powder
	Colour	White
	Odour	Not determined
	Odour threshold	Not determined
	pH	5.0 ~ 7.0
	Melting point/freezing point	270 – 275°C
	Initial boiling point and boiling range	Not available
	Flash point	Not available
	Flammability	Not available
	Upper/lower flammability or explosive limits	Not available
	Vapour pressure	Not available
	Vapour density	Not available
	Relative density	Not available
	Solubility(ies)	2.74 g/100g (at 20 °C) in water
	Partition coefficient n-octanol/water (log value)	Not available
	Auto-ignition temperature	Not available
	Decomposition temperature	Not available
	Kinematic viscosity	Not available

	Solubility in other Solvents	Not available
	Particle characteristics	Not available
Other safety information	Information concerning to the classes of physical hazards: Not available Other security characteristics: Not available	
10. STABILITY AND REACTIVITY		
Reactivity	Not data available	
Chemical stability	Stable for 4 years at ambient room temperature storage conditions (Typically 15~30°C; 35~60% relative humidity).	
Possibility of hazardous reactions	Hazard polymerization will not occur	
Conditions to avoid	Not data available	
Incompatible materials	Strong oxidizers	
Hazardous decomposition materials	Carbon monoxide, Carbon dioxide, Nitrogen oxides	
11. TOXICOLOGICAL INFORMATION		
Acute oral toxicity	Data for mixture: Not available Substances: May be harmful if absorbed through the skin May be harmful if inhaled May be harmful if swallowed	
Acute dermal toxicity:	Data for mixture: Not available	
Acute inhalation toxicity:	Data for mixture: Not available	
Skin corrosion/irritation:	Data for mixture: Not available Substances: May cause skin irritation	
Serious eye damage/irritation:	Data for mixture: Not available Substances: May cause eye irritation	
Skin sensitisation:	Data for mixture: Not available Substances: Not available	
Specific target organ toxicity (repeated exposure):	Data for mixture: Not available Substances: Not available	
Specific target organ toxicity (single exposure):	Data for mixture: Not available Substances: May be irritating to mucous membranes and upper respiratory tract	

Carcinogenicity:	Data for mixture: Not available Substances: Not available
Reproductive toxicity:	Data for mixture: Not available Substances: Not available
Germ cell mutagenicity:	Data for mixture: Not available Substances: Not available
Sensitisation to the respiratory tract:	Data for mixture: Not available Substances: Not available
12. ECOLOGICAL INFORMATION	
Toxicity	Based on available data, the classification criteria are not met. Data for mixture: Not available Substances: Not available
Persistence and degradability	The product has not been tested. Data for mixture: Not available Substances: Not available
Bioaccumulative potential	The product has not been tested. Data for mixture: Not available Substances: Not available
Mobility in soil	The product has not been tested. Data for mixture: Not available Substances: Not available
Results of PBT and vPvB assessment	Not data available
Endocrine disrupting properties	No data available.
Other adverse effects	Not determined
13. DISPOSAL CONSIDERATIONS	

Waste treatment methods	<p>Product/Packaging disposal: Waste codes/waste designations according to EWC/AVV: The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.</p> <p>Waste treatment options: Appropriate disposal/Product: Dispose of waste according to applicable legislation.</p> <p>Appropriate disposal/Package: Non-contaminated packages must be recycled or disposed of. Contaminated packing must be completely emptied and can be reused after proper cleaning. Packing which cannot be properly cleaned must be disposed of. Dispose of waste according to applicable legislation.</p> <p>Remark: For recycling, contact manufacturer.</p>
14. TRANSPORT INFORMATION	
UN Number	The product is not hazardous according to the applicable transport regulations.
UN proper shipping name	Not regulated
Transport hazard classes	Not regulated
Packing group	Not regulated
Environmental hazards	Not regulated
Special precautions for user	Not regulated
Bulk shipping according to IMO instruments	Not regulated
15. REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance or mixture	OEL=MAK - NOES 1983 : HZD X5534; NIS 4; TNF 792; NOS 14; TNE 19901; TFE 14903 - EPA TSCA Section 8(B) chemical inventory
Chemical safety assessment	For this substance/mixture a chemical safety assessment is not required. No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
16. OTHER INFORMATION	
Indication of changes	Not applicable (first edition of the MSDS).

Abbreviations and acronyms	<p>CAS: Chemical Abstract Service Number. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. DPD Dangerous Preparation Directive. UN number: United Nations number. No EC: European Commission Number. ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways. ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail. CLP: Classification, labeling and packaging. VPvB: very persistent and very bio accumulative substances.</p>
Key literature references and sources for data	No data available
Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]	<p>Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008. Complies with ATP 18, Regulation (EU) n°2022/692.</p>
Relevant R-, H- and EUH-phrases (Number and full text)	
Training advice	Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.
Additional information	<p>Creation date: 09/02/2023 Version date: 09/02/2023 Printing date: 16/02/2023</p>
<p>The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.</p>	