

e $\mathbf{\alpha}$ 4

D0600

	MENIOA		IVI	ater	lai Sai	ety	Data	Snee
HAZARD WARN	NGS	RISI	K PHRASES			PROT	TECTIVE CL	OTHING
	Irritating to a	npound, minimize skin, eyes, and th EN. MINIMIZE EX ive.	ne respiratory	system.	l			
Section I.	Chemical Prod	uct and Co	mpany Ide	entifica	tion			
Chemical Name	L-3-(3,4-	Dihydro	xyphen	yl)ala	nine			
Catalog Number	D0600				Supplier	TCI Am 9211 N	erica Harborgate	St
Synonym	2-Amino-3-(3,4-	dihydroxyphenyl)propanoic Aci	d		Portland		01.
Chemical Formula	$(HO)_2C_6H_3CH_2C$	H(NH ₂)COOH						
CAS Number	59-92-7				In case of Emergency Call		24-9300 (U	l.S.) nternational)
Section II.	Composition a		1	- -				
	al Name	CAS Number	Percent (%)		TLV/PEL		Toxicolog	
L-3-(3,4-Dinydro	oxyphenyl)alanine	59-92-7	Min. 98% (T)	a carcinoge	cal is classified as en. There is no exposure limit fo	Rat L r a 624m	D₅₀ (oral) 1780 D₅₀ (intraperito g/kg it LD₅₀ (oral) 1	oneal)
Section III.	Hazards Ident	ification		•				
Acute Health Effect	Irritating to eyes a eye is characteriz or, occasionally, b	d or inhaled. Minim nd skin on contact. ed by redness, wate listering. rial hygiene practice	Inhalation caus ering, and itching	es irritation g. Skin infla	of the lungs and r mmation is chara	espiratory cterized b	system. Inflar y itching, scali	mmation of the ing, reddening,
Chronic Health Effec	MUTAGENIC EFF TERATOGENIC E Man TDLo (oral) & Toxic Effects: Tumorigenic - Car Skin and Appenda DEVELOPMENT/ Rat TDLo (intrape TOXIC Effects: Paternal Effects - Paternal Effects - Rat TDLo (oral) 60 TOXIC effects: Specific Developn Effects on newbor Mouse TDLo Intra TOXIC Effects: Effects on Fertility	AL TOXICITYRepro- ritoneal) 4500mg/kg	ole. enic effects: ars, continuous. S criteria. ductive Effects: g, male 15 days p sperm duct 7-17 days of preg s - Musculoskeles kg, female 7-12 c mortality	prior to matir Inancy. tal system				
Section IV.	First Aid Meas	ures						
Eye Contact	Check for and rer minutes. Get mee	nove any contact le lical attention.	enses. In case o	of contact, in	nmediately flush	eyes with	plenty of water	for at least 15
Skin Contact		In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.						
Inhalation		t breathing, perforr athing is difficult, o						
Ingestion	Loosen tight clot resuscitation. Ex toxic material wa	VG by sticking finge hing such as a col amine the lips and s ingested; the ab se of ingestion of a	lar, tie, belt or w mouth to ascert sence of such s	vaistband. ain whether signs, howe	If the victim is n the tissues are of	ot breathi Iamaged,	ng, perform m a possible ind	nouth-to-mouth lication that the

D0600	L-3-(3,4-D)ihydroxyphenyl)a	lanine Pa	ige	
Section V. F	ire and Explosion Data				
Flammability	May be combustible at high temperature.	Auto-Ignition	Not available.		
Flash Points	Not available.	Flammable Limits	Not available.		
Combustion Products	These products are toxic carbon oxides (CO	, CO₂), nitrogen oxides (NO, No			
Fire Hazards	Not available.				
Explosion Hazards	Risks of explosion of the product in presence Risks of explosion of the product in presence				
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam Consult with local fire authorities before atter		operations.		
Section VI. A	ccidental Release Measures	;			
Spill Cleanup Instructions	Harmful material. Irritating material. Carcino Use a shovel to put the material into a co contaminated surfaces with copious amoun disposal.	nvenient waste disposal conta	ainer. Finish cleaning the spill by rinsing		
Section VII. Ha	andling and Storage				
Handling and Storage Information	HARMFUL. IRRITANT. CARCINOGEN. When not in use, tightly seal the container a dust. Always store away from incompatible compo	nd store in a dry, cool place.	,		
Section VIII. E	xposure Controls/Personal				
Engineering Controls	Use process enclosures, local exhaust recommended exposure limits. If user op airborne contaminants below the exposure li	ventilation, or other enginee perations generate dust, fume			
Personal Protection	Splash goggles. Lab coat. Dust respirator. Boots. Gloves. Suggested protective clothing might not be sufficient; consul a specialist BEFORE handling this product. Be sure to use a MSHA/NIOSH approved respirator or equivalent.				
Exposure Limits	This chemical is classified as a carcinogen.	There is no acceptable exposu	re limit for a carcinogen.		
Section IX. P	hysical and Chemical Prope	rties			
Physical state @ 20°C	Solid. (Crystalline powder.)	Solubility	66mg/ml of water.		
Specific Gravity	Not available.		Readily soluble in dillute hydrochlori formic acids. Practically insoluble in ethanol, ben chloroform, ethyl acetate.		
Molecular Weight	197.19	Partition Coefficient	Not available.		
Boiling Point	Not available.	Vapor Pressure	Not applicable.		
Melting Point	276 to 278°C (528.8 to 532.4°F)	Vapor Density	Not available.		
Refractive Index	Not available.	Volatility	Not available.		
Critical Temperature	Not available.	Odor	Odorless.		
Viscosity	Not available.	Taste	Tasteless.		
Section X. S	tability and Reactivity Data				
Stability	This material is stable if stored under proper	conditions. (See Section VII fo	r instructions)		
Conditions of Instability	Air and light sensitive. Avoid excessive heat	and light.			

D0600	L-3-(3,4-Dihydroxyphenyl)alanine Page 3
Section XI.	Toxicological Information
RTECS Number	AY5600000
Routes of Exposure	Eye Contact. Ingestion. inhalation.
Toxicity Data	Rat LD ₅₀ (oral) 1780mg/kg Rat LD ₅₀ (intraperitoneal) 624mg/kg Rabbit LD ₅₀ (oral) 100mg/kg
Chronic Toxic Effects	CARCINOGENIC EFFECTS : Carcinogenic by RTECS criteria. MUTAGENIC EFFECTS : Not available. TERATOGENIC EFFECTS : Tumorigenic effects: Man TDLo (oral) 87520 mg/kg/1.5 years, continuous. Toxic Effects: Tumorigenic - Carcinogenic by RTECS criteria. Skin and Appendages - Tumors. DEVELOPMENTAL TOXICITYReproductive Effects: Rat TDLo (intraperitoneal) 4500mg/kg, male 15 days prior to mating. TOXIC Effects: Paternal Effects - Spermatogenesis Paternal Effects - Spermatogenesis Paternal Effects - Testes, epididymis, sperm duct Rat TDLo (oral) 6600 mg/kg, female 7-17 days of pregnancy. TOXIC effects: Specific Developmental Abnormalities - Musculoskeletal system Effects on newborn - Growth statistics Mouse TDLo Intraperitoneal 600 mg/kg, female 7-12 days of pregnancy TOXIC Effects: Effects on Fertility - Post-implantation mortality Effects on Embryo or Fetus - Fetotoxicity
Acute Toxic Effects	Harmful if ingested or inhaled. Minimize exposure to this material. Severe overexposure can result in injury or death. Irritating to eyes and skin on contact. Inhalation causes irritation of the lungs and respiratory system. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Follow safe industrial hygiene practices and always wear proper protective equipment when handling this compound.
Section XII.	Ecological Information
Ecotoxicity	Not available.

Environmental Fate Not available.

Section XIII. Disposal Considerations

Waste Disposal

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissove or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and locl regulations when disposing of the substance.

Section XIV.	Transport Information
DOT Classification	Not a DOT controlled material (United States).
PIN Number	Not applicable.
Proper Shipping Name	Not applicable.
Packing Group (PG)	Not applicable.
DOT Pictograms	\bigotimes

Section XV. Ot	ther Regulatory Information and Pictograms	
TSCA Chemical Inventory (EPA)	This compound is ON the EPA Toxic Substances Control Act (TSCA) inventory list.	
WHMIS Classification (Canada)	Not available.	
EINECS Number (EEC)	200-445-2	
EEC Risk Statements	R20/21/22- Harmful by inhalation, in contact with skin and if swallowed. R36/37/38- Irritating to eyes, respiratory system and skin. R45- May cause cancer.	
Japanese Regulatory Data	Not available.	

D0600

L-3-(3,4-Dihydroxyphenyl)alanine

Section XVI. Other Information

Version 1.0 Validated on 6/24/2005. Printed 6/24/2005.

Notice to Reader

TCI laboratory chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our MSDS sheets are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, facial mask, fume hood). For proper handling and disposal, always comply with federal, state, and local

Printed 6/24/2005.