

L(+)- Tartaric Acid, Natural

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Section 1 - Identification of	the substance/mixture an	d of the company/i	undertaking	
Product Identifier/Name:	L-(+)-Tartaric Acid, Natural			
Trade Name and	Natural tartaric acid; L(+)-Dihydroxysuccinic acid			
Synonyms:				
Chemical Name:	L(+)-Dihydroxysuccinic acid			
Relevant Identified Uses	Acidifier, antioxidant, flavor e	enhancer, and stabili	zing agent.	
of the Substance or				
Mixture and Uses				
Advised Against:				
Restrictions On Use:	None known			
Details of the Supplier:	ATPGroup	Questions Conta	ct: compliance	@atpgroup.com
	2 Madison Ave.	Emergency Phon	e:	
	Larchmont, NY 10538 USA	800-424-9300 - CI	HEMTREC (24/7	') – within USA &
	Telephone: 914-834-1881	Canada		
	Fax: 914-834-4611	+1 703-527-3887 -		24/7) –
	www.atpgroup.com	International & Mar	ritime	
	(707) 836-6840 – ATPGroup			
Section 2 – Hazards Identifi				
GHS Classification and Lab	,			
GHS Classification in	Serious Eye damage/Eye I	rritation (Category 2	2A)	
accordance with 29 CFR				
1910 (OSHA HCS)				
Label Elements	D			
Signal Word:	Danger			
Hazard Statement:	H318 Causes serious eye	damage.		
Pictogram:				
Precautionary Statement:	Prevention: Wear protective	ve gloves/protective	clothing/eye p	rotection/face
recautionary Statement.	protection			
	Eyes: IF IN EYES: Rinse of	autiously with wate	r for several mi	nutes. Remove
	contact lenses, if present and easy to do. Continue rinsing Immediately call a			
	POISON CENTER or doctor		J	•
	Storage: Store in a well-ve	ntilated place. Kee	p container tigh	tly closed
Hazards not otherwise	_		J	
classified (HNOC):	None identified			
Special Provisions:	None			
Section 3 – Composition / II				
Substances:	Tartaric Acid	100%	CAS NO.	87-69-4
Mixtures:	N.A.			
Composition comments:				
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Section 4 – First Aid Measu	res
Description of First Aid Measures: Most Important Symptoms	Inhalation: Move person to fresh air. Get medical attention for any breathing difficulty. Ingestion: Do not induce vomiting. If large amounts were swallowed, give several glasses of water to drink to dilute. In serious cases seek medical advice. Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops. Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.
Most Important Symptoms and Effects, acute and delayed:	Causes eye burns. Causes severe eye damage.
Indication of Any Immediate Medical Attention and Special Treatment Needed: General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment: None Immediate medical intervention is not necessary but is recommended later if any
	problems persist. Show this safety data sheet to doctor.
Section 5 – Firefighting Mea	
Extinguishing Media:	Water spray, dry chemical, alcohol foam, or carbon dioxide.
Special Hazards Arising from the Substance or Mixture:	Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. If involved with fire, fumes can contain carbon monoxide. Explosion: Not considered to be explosive. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Special protective equipment and precautions for firefighters:	In the event of a fire, wear full protective clothing and NIOSH-approved self- contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.
Section 6 – Accidental Rele	ase Measures
Personal Precautions, Protective Equipment, Emergency Procedures:	Non-Emergency Personnel : avoid breathing the dust and contact with eyes, leave the contaminated area. Wear suitable protective equipment (see section 8). Emergency Personnel : ventilate area, wear appropriate protective equipment (see section 8), avoid breathing the dust and contact with eyes
Environmental	Do not let product enter drains, sewers, and surface/ground waters
Precautions:	
Methods and Material for Containment and Clean-up:	Cover the drains to avoid product going into the sewage system, collect the spilled material in appropriate containers using a method that does not generate dust (vacuum cleaner or water cleaner) for reclamation or disposal in accordance with local rules. Flush area with water.
Reference to Other Sections:	Section 13 of the SDS
Section 7 – Handling And St	torage



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Precautions For Safe Handling:	Avoid contact with eyes and skin, using suitable protective equipment. Avoid inhalation and ingestion. Handle in accordance with good industrial hygiene practice and any legal requirements. Ensure adequate ventilation, especially in confined areas. Wash hands after use. Minimize dust generation and accumulation.					
Conditions For Safe Storage:	Keep in a tightly closed container. Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat/ignition, moisture, direct sunlight, extreme cold, and incompatibilities. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.					
Incompatibilities:	None in particula	ar				
Specific End Use:	See 1.2					
Section 8 – Exposure Cor Control Parameters:						
	 OSHA Permissible Exposure Limit (PEL): 15 mg/m3 total dust, 5 mg/m3 respirable fraction for nuisance dusts. ACGIH Threshold Limit Value (TLV): 10 mg/m3 total dust containing no asbestos and <1% crystalline silica for Particulates Not Otherwise Classified (PNOC). It is recommended not to exceed the following values on the basis of 8 hour exposures. DN(M)ELs for workers 					
	Exposure Pattern	Route	Descriptor	DNEL / DMEL	(Corrected) Dose Descriptor	
	Long-Term – Systemic Effects	Dermal	DNEL (Derived No Effect Level)	2.9 mg/kg bw/day	NOAEL: 145 mg/kg bw/day (based on AF of 50)	
	Long-Term – Systemic Effects	Inhalation	DNEL (Derived No Effect Level)	5.2 mg/m ³	NOAEC: 260.0 mg/m ³ (based on AF of 50)	
	DN(M)ELs for the general population					
	Exposure Pattern	Route	Descriptor	DNEL / DMEL	(Corrected) Dose Descriptor	
	Long-Term – Systemic Effects	Dermal	DNEL (Derived No Effect Level)	1.5 mg/kg bw/day	NOAEL: 150 mg/kg bw/day (based on AF of 100)	
	Long-Term – Systemic Effects	Inhalation	DNEL (Derived No Effect Level)	1.3 mg/m3	NOAEC: 130 mg/m3 (based on AF of 100)	
	Long-Term – Systemic Effects	Oral	DNEL (Derived No Effect Level)	8.1 mg/kg bw/day	NOAEL: 810 mg/kg bw/day (based on AF of 100)	



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Engineering Controls	Provide ventilation system; in general dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.				
Personal Protection	Personal Respirators	s (NIOSH Approved): If the	exposure limit is		
Information:	Personal Respirators (NIOSH Approved): If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-facepiece dust/mist respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-sullied respirator. WARNING: Air-				
		o not protect workers in oxyg			
	atmospheres.				
	Skin Protection : Wear protective gloves (ref. EN 374) and clean body-covering clothing.				
		Eye Protection: Use chemical safety goggles with side shields (ref. EN			
General Hygiene:	166). Maintain eye wash fountain and quick-drench facilities in work area. Handle with accordance with good industrial hygiene and safety practice.				
Jeneral Hygiener		Wash your hands before breaks and at the end of the workday. Keep away			
	from food and drink. Wash work clothing and PPE periodically to remove contaminants.				
Section 9 – Physical and	Chemical Properties				
Information on Basic Phy	sical and Chemical Prop	erties:			
Appearance:	White or transparent	Flammability:	Not flammable		
Color	crystals or crystalline powder, solid				
Odor:	Odorless	Upper Flammability/Explosive Limit:	Not available		
Odor Threshold:	Not available	Lower Flammability/Explosive Limit:	Not available		
pH:	2.2 in water (15g/L)	Vapor Pressure:	Not available		
Melting Point:	169°C at 1013 hP	Vapor Density:	Not available		
Freezing Point:	Not available	Relative Density:	1.76		
Boiling Point:	179.1°C at 1013 hPa	Solubility:	ca.133 g/100 g of water		
Boiling Range:	Not available	Partition Coefficient: n- octanol/water:	Log Kow (Pow): -1.91 at 20°C		
Flash Point:	>100°C at 102.3 kPa	Auto Ignition Temperature:	375°C at 1013 hPa		
Evaporation Rate:	Not available	Decomposition Temperature:	425°C		
Molecular Weight	12.01 g/mol	Viscosity:	Not available		



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Molecular Weight	150.1	Molecular Formula	C ₄ H ₆ O ₆	
Section 10 - Stability and Re	eactivity			
Reactivity:	Product is not reactive under recommended use and storage.			
Chemical Stability:	Stable under ordinary conditions of use and storage			
Hazardous Polymerization:	None			
Possibility of Hazardous Reaction	There are no hazardou	s reactions known		
Conditions to Avoid:	Heat, flames, ignition s	ources and incompatibles.		
Incompatible Materials:	Strong oxidizing agents	s, fluorine, silver, metals		
Hazardous Decomposition Products	Carbon dioxide and carbon monoxide may form when heated to decomposition.			
Section 11 – Toxicological In				
Information on Toxicological				
Routes of Entry:	Inhalation, Ingestion, a	•		
Acute Toxicity:	Oral: LD50: > 2000 mg Dermal: LD50: > 2000	mg/kg bw for rat		
Skin corrosivity/Irritation:		rbed through skin causing mild	irritation.	
Eye damage/irritation	Causes serious eye irritation			
Sensitization:	No Data Available			
Repeated Dose Toxicity:	No Data Available			
Carcinogenicity:	None			
Mutagenicity:	None			
Reproduction: Toxicity:	No Data Available			
Aspiration hazard:	Negative			
Chronic effects:	No Data Available			
Further information:				
Section 12 – Ecological Info				
Ecotoxicity:	No information availab			
Persistence & Degradability:	readily in sewage treat	ment plants.	,	
Bioaccumulation Potential:	The aquatic bioaccumus substance is readily bio	ulation study does not need to be odegradable	e conducted as the	
Mobility in Soil:	The mobility in soil does not need to be evaluated as the substance is readily biodegradable			
Results of PBT and vpvB Assessment:	Not considered to be a	a PBT or vPvB substance	_	
Other Adverse Effects:	None			
Section 13 - Disposal Consi	derations			



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Waste Treatment Methods: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Sta and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state an local requirements. Empty containers have to be handled with the same caution the pure substance. Section 14 – Transport Information DOT: Not regulated as dangerous goods. Not regulated as dangerous goods. Not regulated as dangerous goods. Not available Not available Not available Not available Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not regulated as dangerous goods. Not applicable Not applicable Not applicable Not applicable Not applicable Not regulated as dangerous goods. Not applicable Not applicable Not applicable Not applicable Not regulated as dangerous goods. Not applicable Not regulated as dangerous goods. Not applicable Not applicable Not applicable Not applicable Not applicable Not regulated as dangerous goods. Not regulated as dangerous goods. Not applicable Not applicable Not applicable Not applicable Not applicable Not regulated as dangerous goods. Not product is not classified as a marine pollutant. Special Precautions for USA - Federal regulations Transportation in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: General information: Section 15 - Regulatory Information Safety Health and Environmental Regulations/ ISA - Federal regulations TSCA - Toxic Substances Control Act: This substances is listed on the TSCA inventory TSCA isted substances: None SARA - Superfund Amendments and Reauthorization Act Section 302 - Extremely Hazardous Substances: No Section 313 - Toxic chemical		
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Section 15 – Regulatory Information Safety Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture SARA - Superfund Amendments and Reauthorization Act Section 302 – Extremely Hazardous Substances: No Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None	Code:	
Safety Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture USA - Federal regulations TSCA - Toxic Substances Control Act: This substance is listed on the TSCA inventory TSCA listed substances: None SARA - Superfund Amendments and Reauthorization Act Section 302 – Extremely Hazardous Substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		
Environmental Regulations/ Legislation Specific for the Substance or Mixture TSCA - Toxic Substances Control Act: This substance is listed on the TSCA inventory TSCA listed substances: None SARA - Superfund Amendments and Reauthorization Act Section 302 - Extremely Hazardous Substances: No Section 313 - Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		rmation
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TSCA listed substances: None SARA - Superfund Amendments and Reauthorization Act Section 302 – Extremely Hazardous Substances: No Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None	Environmental Regulations/	TSCA - Toxic Substances Control Act:
SARA - Superfund Amendments and Reauthorization Act Section 302 – Extremely Hazardous Substances: No Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None	Legislation Specific for the	This substance is listed on the TSCA inventory
Section 302 – Extremely Hazardous Substances: No Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None	Substance or Mixture	TSCA listed substances: None
Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		SARA - Superfund Amendments and Reauthorization Act
Section 304 – Hazardous substances: No Section 313 – Toxic chemical list: No CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		Section 302 – Extremely Hazardous Substances: No
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		
Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		Section 313 – Toxic chemical list: No
Compensation, and Liability Act No substances listed. CAA - Clean Air Act CAA listed substances: None CWA - Clean Water Act CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		CERCLA - Comprehensive Environmental Response,
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CWA listed substances: None USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		CAA listed substances: None
USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		
USA - State specific regulations California Proposition 65 Substance(s) listed under California Proposition 65: None		CWA listed substances: None
California Proposition 65 Substance(s) listed under California Proposition 65: None		
Substance(s) listed under California Proposition 65: None		
<u>-</u>		Substance(s) listed under Massachusetts Right to know: No



L(+)- Tartaric Acid, Natural

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	New Jersey Right to know Substance(s) listed under New Jersey Right to kno Pennsylvania Right to know Substance(s) listed under Pennsylvania Right to kr		
		On inventory (yes/no)*	
	Australia Australian Inventory of Chemical Substances (AICS) Canada Domestic Substances List (DSL) China Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Substances (EINECS) Korea Existing Chemicals List (ECL) New Zealand New Zealand Inventory Philippine Philippine Inventory of Chemicals and Chemical Substances (PICCS United States Toxic Substances Control Act (TSCA) Inventory Japan *A "Yes" indicates this product complies with the inventory requirements administe governing country(s). A "No" indicates that one or more components of the product	Yes	
Section 16 - Other Inf	or exempt from listing on the inventory administered by the governing country(s).		
Revision date Version #	March 12, 2024 05		
HMIS® Ratings	Health: 0 Flammability: 1 Physical hazard: 0		
NFPA Ratings	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Exp the Manufacturing, Processing, and Handling of Combustible Particula for safe handling.		

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