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Material Safety Data Sheet

Section 1. Product and Identification	
Common name:	DL-Malic Acid
Synonyms:	Hydroxysuccinic Acid
Molecular formula:	$\text{HOOCCH}_2\text{CH}(\text{OH})\text{COOH}$
CAS #:	6915-15-7
In case of emergency:	
Chemtrec (24hr)	(800) 424-9300
Supplier:	AerChem Inc. 320 N. Walnut St. Bloomington, IN 47404 U.S.A..
	phone: (812) 334-9996 fax: (812) 334-1960 http://www.aerchem.com

Section 2. Composition and Informaion on Ingredients

Name	CAS #	% by Weight
DL-Malic Acid	6915-15-7	100

Toxicological Data on Ingredients	DL-Malic Acid ORAL (LD50): Not Available.
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Section 3. Hazards Identification

Potential Acute Health Effects	Irritating to eyes, skin, and mucous membranes. Low oral toxicity. Ingestion may cause irritation of the mouth, throat and digestive tract. CARCINOGENIC EFFECTS: Not Available. MUTAGENIC EFFECTS: Not Available. TERATOGENIC EFFECTS: Not Available.
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Section 4. First Aid Measures

Eyes	Immediately flush with water for at least 15 minutes, holding eye open. Obtain Medical attention if irritation persists.
Skin	Wash conatminated skin thoroughly with soap and water. Remove contaminated clothing. Seek medical attention if

irritation persists. Wash clothes before reuse.

Ingestion	Rinse mouth with water. DO NOT induce vomiting. If conscious give victim 250ml water to drink. Never give unconscious person anything by mouth. Seek medical attention.
Inhalation	Move victim to fresh air. Give artificial respiration if not breathing. Seek medical attention.

Section 5. Fire-Fighting Measures	
Extinguishing media:	Standard media such as powder, foam or water are suitable.
Special Hazards	Thermal Decomposition forms CO and CO ₂
For the protection of firefighters, the standard breathing apparatus should be used.	

Section 6. Accidental Release Measures	
	Wearing respiratory protection is recommended.
Methods for clean-up:	After spillage or leakage remove the waste in dry form if possible, otherwise flush with plenty of cold water.

Section 7. Handling and Storage	
Handling:	If appropriate, technical measures should be taken to dispose of dust by ventilation or vacuum cleaning. Avoid excess dust
Storage:	Store in cool dry place. Suitable containers include: Glass, Stainless Steel, Polypropylene, and HD Polyethylene
Unsuitable containers:	Iron, Zinc, Aluminum

Section 8. Exposure Controls / Personal Protection	
	In case of raising dust, the use of breathing protection is recommended. Also, Rubber gloves and Safety goggles.

Section 9. Physical and Chemical Properties		
	Form	crystalline powder
	Color	White
	Odor	Odorless
	pH Value	2.2
	Melting Point	130°C
	Flash Point	203°C
	Explosion Prop.	No explosion properties known
	Buld Density	1.69 g/cubic cm
	Solubility in water	565 % m/m @ 20°C

Section 10. Stability and Reactivity

Stable.

Avoid open flame.

Section 11. Toxicological Information

This product is not toxic and does not contain ingredients which can be considered as such.

Section 12. Disposal

Dispose of in accordance to local laws and regulations.

Section 13. Transport and Regulatory Information

This product is not classified as dangerous goods according to international regulations for transport, nor is it a DOT regulated substance.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. AerChem, Inc. Shall not be held liable for any damage resulting from handling or from contact with the above product.