SIGMA-ALDRICH

Material Safety Data Sheet

Version 3.0 Revision Date 12/29/2008 Print Date 02/10/2009

PRODUCT AND COMPAN					
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Product name	: DL-Tartaric aci	d			
Product Number	: T400				
Brand	: Aldrich				
Company	: Sigma-Aldrich				
	3050 Spruce Stree SAINT LOUIS MC				
	USA	00100			
Telephone	: +1 800-325-5832				
Fax	: +1 800-325-5052				
Emergency Phone #	: (314) 776-6555	: (314) 776-6555			
COMPOSITION/INFORMAT	TION ON INGREDIENTS				
Synonyms	: DL-2,3-Dihydroxyl	butanedioic acid			
Formula	: C ₄ H ₆ O ₆				
Molecular Weight	: 150.09 g/mol				
	-				
CAS-No.	EC-No.	Index-No.	Concentration		
(+/-)-Tartaric acid					
133-37-9	205-105-7	-	-		
HAZARDS IDENTIFICATIO	N				
Emergency Overview					
OSHA Hazards Irritant					
HMIS Classification					
Health Hazard:	2				
Flammability:	1				
Physical hazards:	0				
NFPA Rating					
Health Hazard:	2				
Fire:	1				
Reactivity Hazard: Potential Health Effects	0				
Inhalation Skin	May be harmful if inhaled. Causes respiratory tract irritation.				
Eyes	May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation.				
Ingestion	May be harmful if swallo	wed.			
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4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance.Move out of dangerous area. If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Wash off with soap and plenty of water. Consult a physician. In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point 210 °C (410 °F) - closed cup

Ignition temperature no data available Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	
Form	

Safety data

рН	no data available
Melting point	210 - 212 °C (410 - 414 °F)
Boiling point	no data available
Flash point	210 °C (410 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

solid

10. STABILITY AND REACTIVITY

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Bases, Oxidizing agents, Reducing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxic	ity	
no data ava	ilable	
Irritation ar	nd corrosion	
no data ava	ilable	
Sensitisatio	on	
no data ava	ilable	
Chronic ex	posure	
IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as	
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	probable, possible or confirmed human carcinogen by IARC.		
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
Signs and Sy	mptoms of Exposure		
To the best of investigated.	our knowledge, the chemical, physical, and toxicological properties have not been thoroughly		
Potential Hea	Ith Effects		
Inhalation Skin Eyes Ingestion	May be harmful if inhaled. Causes respiratory tract irritation. May be harmful if absorbed through skin. Causes skin irritation. Causes eye irritation. May be harmful if swallowed.		
12. ECOLOGICAL Elimination in	INFORMATION		
no data availa			
Ecotoxicity e	ffects		
no data availa	ble		
Further inform	nation on ecology		
no data availa	ble		
13. DISPOSAL CC	INSIDERATIONS		
	deral, state, and local environmental regulations. Contact a licensed professional waste disposal		
Contaminate Dispose of as	d packaging unused product.		
14. TRANSPORT	NFORMATION		
DOT (US) Not dangerous	goods		
IMDG Not dangerous	goods		
IATA Not dangerous	goods		
15. REGULATOR	(INFORMATION		
OSHA Hazaro	łs		
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DSL Status

All components of this product are on the Canadian DSL list.

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components	CAS-No.	Revision Date
(+/-)-Tartaric acid	133-37-9	Revision Date
New Jersey Right To Know Components		
(+/-)-Tartaric acid	CAS-No. 133-37-9	Revision Date

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Further information

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