

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/10/2015

performance through chemistry

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Substance name	: Tartaric Acid
Chemical name	: 2,3-Dihydroxybutanedioic acid
CAS No	: 87-69-4
Product code	: LC25940
Formula	: HOOC(CHOH)2COOH
Other means of identification	: L-tartaric acid
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	: For laboratory and manufacturing use only.
1.3. Details of the supplier of the safety	data sheet
LabChem Inc Jackson's Pointe Commerce Park Building 1000 Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	, 1010 Jackson's Pointe Court
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	
2.1. Classification of the substance or m	nixture

Classification (GHS-US)

Eye Dam. 1 H318 Aquatic Acute 3 H402 Full text of H-phrases: see section 16

2.2.	Label elements	
	IS labeling	
Hazaro	l pictograms (GHS-US)	GHS05
Signal	word (GHS-US)	: Danger
Hazaro	statements (GHS-US)	: H318 - Causes serious eye damage H402 - Harmful to aquatic life
Precau	itionary statements (GHS-US)	 P273 - Avoid release to the environment P280 - Wear eye protection P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a poison center/doctor P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3.	Other hazards	
Other h classifi	nazards not contributing to the cation	: None under normal conditions.
2.4.	Unknown acute toxicity (GHS-US)	
Not ap	plicable	
SECT	ION 3: Composition/informatio	n on ingredients
3.1.	Substance	
Substa	nce type	: Mono-constituent
02/10/2	015	EN (English US) Page 1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name		Product identifier	%	Classification (GHS-US)
Tartaric Acid (Main constituent)		(CAS No) 87-69-4	100	Eye Dam. 1, H318 Aquatic Acute 3, H402
Full text of H-phrases: see section 16				Aqualic Acule 3, H402
3.2. Mixture				
Not applicable				
4.1. Description of first aid meas	ures			
First-aid measures general	: Neve	r give anything by mouth to an use (show the label where possible		If you feel unwell, seek medical
First-aid measures after inhalation	: Allow	victim to breathe fresh air. Allow	w the victim to rest.	
First-aid measures after skin contact		ove affected clothing and wash a arm water rinse.	all exposed skin area	a with mild soap and water, followed
First-aid measures after eye contact		e cautiously with water for severation severation of the severatio		contact lenses, if present and easy to doctor/physician.
First-aid measures after ingestion	: Rinse	e mouth. Do NOT induce vomitin	g. Obtain emergenc	y medical attention.
4.2. Most important symptoms a	nd effects, both	acute and delayed		
Symptoms/injuries after eye contact	: Caus	es serious eye damage.		
4.3. Indication of any immediate	medical attentio	n and special treatment neede	ed	
Obtain medical assistance.				
SECTION 5: Firefighting meas	ures			
5.1. Extinguishing media				
Suitable extinguishing media	: Foarr	n. Dry powder. Carbon dioxide. V	Vater sprav. Sand.	
Insuitable extinguishing media		ot use a heavy water stream.		
5.2. Special hazards arising fron				
No additional information available		or mature		
5.3. Advice for firefighters				
Firefighting instructions	· 60 1	water spray or fog for cooling ex	nosed containers Ex	kercise caution when fighting any
Protection during firefighting	chem	ical fire. Prevent fire-fighting wa	ter from entering env	
		er enter nie alea witheat proper	protootivo oquipinon	
SECTION 6: Accidental releas				
6.1. Personal precautions, prote	ctive equipment	and emergency procedures		
6.1.1. For non-emergency personr	nel			
Protective equipment		y glasses.		
Emergency procedures	: Evac	uate unnecessary personnel.		
6.1.2. For emergency responders				
Protective equipment	: Equip	cleanup crew with proper prote	ection.	
Emergency procedures	: Venti	late area.		
6.2. Environmental precautions				
Prevent entry to sewers and public wate	rs. Notify authoriti	es if liquid enters sewers or pub	lic waters. Avoid rele	ease to the environment.
6.3. Methods and material for co	ntainment and c	leaning up		
Methods for cleaning up	: On la		e containers. Minimi	ze generation of dust. Store away
6.4. Reference to other sections				
See Heading 8. Exposure controls and p	ersonal protection	n.		
SECTION 7: Handling and sto	•			
7.1. Precautions for safe handlin				
Precautions for safe handling	: Wash	ing and when leaving work. Prov		I water before eating, drinking or in process area to prevent formation
Hygiene measures		n exposed skin thoroughly after h	nandling.	
02/10/2015	EN (En	alish US)		2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

7.2. Conditions for safe sto	orage, including any incompatibilities	
Storage conditions	: Keep container closed when not in use.	
Incompatible products	: Strong bases. Strong oxidizers.	
Incompatible materials	: Sources of ignition. Direct sunlight.	
7.2 Epocific and usa(a)		

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1.	Control parameters	
Tartar	ric Acid (87-69-4)	
ACGI	Н	Not applicable
OSHA	N	Not applicable

8.2. Exposure controls	
Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

SECTION 9. Physical and chemical p		
9.1. Information on basic physical and cl	he	mical properties
Physical state	:	Solid
Molecular mass	:	150.09 g/mol
Color	:	White
Odor	:	None.
Odor threshold	:	No data available
рН	:	No data available
pH solution	:	150 (1 - 2) g/l
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	168 - 172 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	150 °C
Auto-ignition temperature	:	425 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	5.18 Air = 1
Relative density	:	1.76 Water = 1
Solubility	:	Soluble in water. Soluble in methanol. Soluble in ether. Soluble in ethanol. Soluble in glycerol. Water: 139 g/100ml
Log Pow	:	-1.909
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosive limits	:	No data available

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

9.2.	Other information
No addit	onal information available
SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	onal information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Not esta	olished.
10.4.	Conditions to avoid
Direct su	nlight. Extremely high or low temperatures.
10.5.	Incompatible materials
Strong o	xidizers. Strong bases.
10.6.	Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Tartaric Acid (\f)87-69-4	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
Additional information	Lowest Published Lethal DoseLDLo, oral, rat: 7500 mg/kg
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after eye contact	: Causes serious eye damage.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water :	Harmful to aquatic life.
Tartaric Acid (87-69-4)	
EC50 Daphnia 1	93.31 mg/l 48 hr.
EC50 other aquatic organisms 1	51.4 mg/l 72 hr.
12.2. Persistence and degradability	
Tartaric Acid (87-69-4)	
Persistence and degradability	Readily biodegradable in water.
12.3. Bioaccumulative potential	
Tartaric Acid (87-69-4)	
Log Pow	-1.909
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
02/10/2015	EN (English US) 4/6

12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on ozone layer	:
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerati	ions
13.1. Waste treatment methods	
Naste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	on
n accordance with DOT	
Not regulated for transport	
Additional information	
Other information	: No supplementary information available.
ADR	
No additional information available	
ransport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory informati	ion
	ion
	ion
15.1. US Federal regulations	
5.1. US Federal regulations Tartaric Acid (87-69-4)	
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes	bstances Control Act) inventory
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 5.2. International regulations	bstances Control Act) inventory
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 5.2. International regulations CANADA	bstances Control Act) inventory
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 5.2. International regulations	bstances Control Act) inventory Immediate (acute) health hazard
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 5.2. International regulations CANADA Tartaric Acid (87-69-4)	bstances Control Act) inventory Immediate (acute) health hazard
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC	bstances Control Act) inventory Immediate (acute) health hazard
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified	bstances Control Act) inventory Immediate (acute) health hazard tances List) Class E - Corrosive Material
5.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 5.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classification according to Directive 67/54	bstances Control Act) inventory Immediate (acute) health hazard tances List) Class E - Corrosive Material
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classification according to Directive 67/54 Not classified 15.2.2. National regulations	bstances Control Act) inventory Immediate (acute) health hazard tances List) Class E - Corrosive Material
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classification according to Directive 67/54 Not classified 15.2.2. National regulations Tartaric Acid (87-69-4)	bstances Control Act) inventory Immediate (acute) health hazard
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classification according to Directive 67/54 Not classified 15.2.2. National regulations	bstances Control Act) inventory Immediate (acute) health hazard
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classified 15.2.2. National regulations Tartaric Acid (87-69-4) Not classified 15.2.2. National regulations Tartaric Acid (87-69-4) Not listed on the Canadian IDL (Ingredient D	bstances Control Act) inventory Immediate (acute) health hazard
15.1. US Federal regulations Tartaric Acid (87-69-4) Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified 15.2.2. National regulations Tartaric Acid (87-69-4) Not classified 15.2.2. National regulations Tartaric Acid (87-69-4) Not listed on the Canadian IDL (Ingredient D 15.3. US State regulations	bstances Control Act) inventory Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Su SARA Section 311/312 Hazard Classes 15.2. International regulations CANADA Tartaric Acid (87-69-4) Listed on the Canadian DSL (Domestic Sust WHMIS Classification EU-Regulations No additional information available Classification according to Regulation (EC Not classified Classification according to Directive 67/54 Not classified 15.2.2. National regulations Tartaric Acid (87-69-4)	bstances Control Act) inventory Immediate (acute) health hazard

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 1	16:
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
H318	Causes serious eye damage
H402	Harmful to aquatic life
NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: A
SDS US (GHS HazCom 2012)	

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.