

Revision number: 2 Revision date: 10/06/2014

# 1. IDENTIFICATION

Product name: Product code: Diethyl D-(-)-Tartrate T1195

#### Product use: Restrictions on use:

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Flammable Liquids [Category 4]
Signal word:	Warning!
Hazard Statement(s):	Combustible liquid
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Keep away from heat, sparks, open flames or other hot surfaces No smoking. Wear protective gloves, eye protection and face protection. In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish. Store in well-ventilated place. Keep cool. Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance Diethyl D-(-)-Tartrate
Percent:	>97.0%(GC)
CAS Number:	13811-71-7
Molecular Weight:	206.19
Chemical Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>6</sub>
Synonyms:	D-(-)-Tartaric Acid Diethyl Ester

# 4. FIRST-AID MEASURES

Inhalation:

Call emergency medical service. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

For laboratory research purposes.

**TCI AMERICA** 

SAFETY DATA SHEET

Not for drug or household use.

Company:	Emergency telephone number:
TCI America	Chemical Emergencies:
9211 N. Harborgate Street	TCI America (8:00am - 5:00pm) PST
Portland, OR 97203 U.S.A.	+1-503-286-7624
Telephone:	Transportation Emergencies:
+1-800-423-8616 / +1-503-283-1681	Chemtrec 24-Hour
Fax:	+1-800-424-9300 (U.S.A.)
+1-888-520-1075 / +1-503-283-1987	+1-703-527-3887 (International)
e-mail:	Responsible department:
sales-US@TCIchemicals.com	TCI America
www.TCIchemicals.com	Environmental Health Safety and Security
	+1- 503-286-7624

4. FIRST-AID MEASURES	
Skin contact:	Call a poison center or doctor if you feel unwell. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists get medical advice/attention. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	If swallowed, seek medical advice immediately and show the container or label. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	No data available No data available
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, CO <sub>2</sub> , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cher	
Hazardous combustion products: Other specific hazards:	These products include: Carbon oxides Closed containers may explode from heat of a fire.
	y low flash point: Use of water spray when fighting fire may be inefficient. Use water spray or fog; do not use ams. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Move

containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters:

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use spark-proof tools and explosion-proof equipment. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Splash goggles. Lab coat. Vapor respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
Emergency procedures:	Isolate area until gas has dispersed. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

#### Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). All equipment used when handling the product must be grounded. Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material.

**Environmental precautions:** 

Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

# 7. HANDLING AND STORAGE

Precautions for safe handling: Do NOT breath gas, fumes, vapor, or spray. Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Use explosion-proof equipment. Use only non-sparking hand tool when handling this product. Ground all equipment containing material. Take measures to prevent build up of electrostatic charge. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition.

Diethyl D-(-)-Tartrate	TCI AMERI	CA	Page 3 of
7. HANDLING AND STORAG			
Conditions for safe storage:	Store and use away fr	om heat, sparks, open flame, or any on the second sec	blace. Keep away from sources of ignition. other ignition source. Keep away from ully resealed and kept upright to prevent
Storage incompatibilities:		es, Store away from oxidizing agents	
B. EXPOSURE CONTROLS /	PERSONAL PROTECTION		
xposure limits:	No data available		
	e sufficient to control airborne leve eas where there is any possibility	els. Ventilation is normally required wh that workers could be exposed to the	en handling or using this product. Eyewash substance. Follow safe industrial
Personal protective equipment			
Respiratory protection: land protection: Eye protection: Skin and body protection:	Vapor respirator. Be s Wear protective glove Splash goggles. Lab coat.	ure to use a MSHA/NIOSH approved s.	respirator or equivalent.
9. PHYSICAL AND CHEMICA	AL PROPERTIES		
Physical state (20°C):	Liquid		
form:	Clear		
Color:	Colorless - Slightly pa	le yellow	
)dor:	No data available		
Odor threshold:	No data available		
lelting point/freezing point:	No data available	pH:	No data available
oiling point/range:	130°C (266°F)/1.1kPa	Vapor pressure:	No data available
ecomposition temperature:	No data available	Vapor density:	No data available
elative density: inematic Viscosity:	1.21 No data available	Dynamic Viscosity:	No data available
artition coefficient:	No data available	Evaporation rate:	No data available
-octanol/water (log Pow)		(Butyl Acetate = 1)	
ïlash point: ïlammability (solid, gas):	93°C (199°F) No data available	Autoignition temperature: Flammability or explosive I Lower: No da	No data available <b>imits:</b> ta available
		Upper: No da	ta available
Solubility(ies):			
10. STABILITY AND REACTI	VITY		
Reactivity: Chemical Stability: Possibility of Hazardous Reactio Conditions to avoid: ncompatible materials: Hazardous Decomposition Prod	ons: In use, may form flam Avoid excessive heat Acids, Bases, Oxidizir	ended storage conditions. (See Sectio mable/explosive vapor-air mixture. and light. ng agents, Reducing agents	on 7)
11. TOXICOLOGICAL INFOR	MATION		

Diethyl D-(-)-Tartrate	TCI AN	IERICA			Page 4 of 5
Acute Toxicity: No data available					
Skin corrosion/irritation: No data available					
Serious eye damage/irritation: No data available					
<b>Respiratory or skin sensitization:</b> No data available					
Germ cell mutagenicity: No data available					
Carcinogenicity:					
No data available					
IARC: No data available	NTP:	No data available	OSHA:	No data available	
Reproductive toxicity: No data available					
Routes of Exposure: Symptoms related to exposure: No specific information is available in our da be kept to a minimum. Always follow safe in Potential Health Effects: No specific information available: skin and e	dustrial hygiene pra	ne toxic effects of this materia actices and wear proper prote	ctive equipment when I	handling this compound	

No specific information available; skin and eye contact may result in irriatation. May be harmful if inhaled or ingested. **Target organ(s):** No data available

# 12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea: Algae:	No data available No data available No data available
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM <sup>3</sup> /mol)	No data available No data available No data available No data available No data available No data available

13. DISPOSAL CONSIDERAT	TONS
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMAT	ION
DOT (US)	Non-hazardous for transportation.
<u> </u>	·····
1474	Non-hazardous for transportation.
ΙΑΤΑ	
IMDG	Non-hazardous for transportation.

## 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

CERCLA Hazard	ous substance an	d Reportable Quantity:		
SARA 313	3:	Not Listed		
SARA 302	2:	Not Listed		
State Regulation	s			
State Right-to-Kr	IOW			
Massachu	usetts	Not Listed		
New Jers	ey	Not Listed		
Pennsylva		Not Listed		
California Propo	sition 65:	Not Listed		
Other Informatio	n			
	<u>n</u>		HMIS Classification:	
	<u>n</u> 0		HMIS Classification: Health:	0
NFPA Rating:	0			
NFPA Rating: Health:	0		Health:	0
Flammability:	0 1 0		Health: Flammability:	0 1
NFPA Rating: Health: Flammability: Instability:	0 1 0 entories	No data available.	Health: Flammability:	0 1

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