# **SAFETY DATA SHEETS**

# According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) - Sixth revised edition

Version: 1.0

Creation Date: Aug 14, 2017

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# 1.Identification

## **1.1GHS Product identifier**

Product name	(-)-Dimethyl d-Tartrate

## 1.20ther means of identification

Product number	_
Other names	dimethyl (2S,3S)-2,3-dihydroxybutanedioate

## 1.3Recommended use of the chemical and restrictions on use

Identified uses	For industry use only.
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Uses advised against no data available

# 2.Hazard identification

2.1Classification of the substance or mixture

no data available

# 2.2GHS label elements, including precautionary statements

Pictogram(s)	no data available
Signal word	no data available
Hazard statement(s)	no data available
Precautionary statement(s)	
Prevention	no data available

Response	no data available
Storage	no data available
Disposal	no data available

# 2.3Other hazards which do not result in classification

no data available

**3.**Composition/information on ingredients

## 3.1Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
(-)-Dimethyl d-Tartrate	(-)-Dimethyl d-Tartrate	13171-64-7	none	100%

# 4.First-aid measures

4.1Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 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.

# 4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary

no data available

**5.**Fire-fighting measures

#### **5.1Extinguishing media**

Suitable extinguishing media

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

5.2Specific hazards arising from the chemical

no data available

**5.3Special protective actions for fire-fighters** 

Wear self-contained breathing apparatus for firefighting if necessary.

#### 6.Accidental release measures

### 6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7.Handling and storage

#### 7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2Conditions for safe storage, including any incompatibilities

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

#### 8.Exposure controls/personal protection

**8.1Control parameters** 

**Occupational Exposure limit values** 

no data available

**Biological limit values** 

no data available

#### **8.2**Appropriate engineering controls

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

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Respiratory protection** 

Wear dust mask when handling large quantities.

Thermal hazards

## no data available

# 9.Physical and chemical properties

Physical state	White mass solid or colorless oil-like liquid
Colour	no data available
Odour	no data available
Melting point/ freezing point	48–50° C
Boiling point or initial boiling point and boiling range	157-159°C (11 mmHg),280°C at 760 mmHg
Flammability	no data available
Lower and upper explosion limit / flammability	no data available

limit	
Flash point	95. 7° C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	no data available
Partition coefficient n-octanol/water (log value)	no data available

Vapour pressure	no data available
Density and/or relative density	1.367 g/cm3
Relative vapour density	no data available
Particle characteristics	no data available

**10.Stability and reactivity** 

 10.1Reactivity

 no data available

 10.2Chemical stability

 Stable under recommended storage conditions.

 10.3Possibility of hazardous reactions

 no data available

 10.4Conditions to avoid

 no data available

#### **10.5Incompatible materials**

no data available

# 10.6Hazardous decomposition products

no data available

## **11.Toxicological information**

#### Acute toxicity

- Oral: no data available
- Inhalation: no data available
- Dermal: no data available

#### Skin corrosion/irritation

no data available

Serious eye damage/irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

roductive toxicity
ta available
T-single exposure
ta available
T-repeated exposure
ita available
ration hazard
ta available
cological information

## 12.1Toxicity

- Toxicity to fish: no data available
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

## 12.2Persistence and degradability

no data available

# 12.3Bioaccumulative potential

no data available

12.4Mobility in soil

#### no data available

12.50ther adverse effects

no data available

**13.Disposal considerations** 

**13.1Disposal methods** 

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

# **14.Transport information**

#### 14.1UN Number

## **14.2UN Proper Shipping Name**

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IMDG:	no	data	available
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IATA: no data available

# 14.3Transport hazard class(es)

ADR/RID: no data available	IMDG: no data available	IATA: no data available
ADK/KID: no data available	IMDG: no data available	IAIA: no data available

# 14.4Packing group, if applicable

14.5Environmental hazards

ADR/RID: no	IMDG: no	IATA: no	

## 14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

# 15.Regulatory information

Chemical name	Common names and synonyms	CAS number	EC number
(-)-Dimethyl d-Tartrate	(-)-Dimethyl d-Tartrate	13171-64-7	none
European Inventory o	European Inventory of Existing Commercial Chemical Substances (EINECS)		
	EC Inventory		
United States Tox:	United States Toxic Substances Control Act (TSCA) Inventory		
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)		Listed.	
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.

15.1Safety, health and environmental regulations specific for the product in question

Vietnam National Chemical Inventory	Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)	Not Listed.

## **16.Other information**

#### Information on revision

Creation Date	Aug 14, 2017
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#### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

#### References

- IPCS The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home
- HSDB Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
- IARC International Agency for Research on Cancer, website: http://www.iarc.fr/
- eChemPortal The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en
- CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
- ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
- ERG Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
- Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
- ECHA European Chemicals Agency, website: https://echa.europa.eu/

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.