

SHANDONG SANYUAN BIOTECHNOLOGY CO.,LTD

NO.89, ZHANGFU ROAD, BINBEI, BINZHOU CITY, SHANDONG PROVINCE, CHINA www.bzsanyuan.com

Material Safety Data Sheet

meso-Erythritol MSDS

Version III - 2017 Valid for five years

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Section 1:Identification

- ★Common Name:meso-Erythritol
- ★Synonym:1,2,3,4-Butanetetrol
- ★Manufacturer Name:Shandong Sanyuan Biotechnology Co.,Ltd

Address:No.89,Zhangfu Road,Binbei,Binzhou City,Shandong Province,China

Post Code:256600

Telephone: +86-0543-2223117 Emergency No.:+86-0543-2292798

 \star Recommended Use:As a sweetener or ingredient in food or beverage processing

Section 2:Hazards Identification			
★Emergency Over	view		
OSHA Hazards			
No known OSHA	nazards		
Not a dangerous :	substance according to GHS		
★HMIS Classificat	on		
Health Hazard:	0		
Flammability:	0		
Physical hazards	: 0		
★NFPA Rating			
Health Hazard:	0		
Fire:	0		
Reactivity Hazar	d: 0		
★Potential Health	. \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation		
Skin	May be harmful if absorbed through skin. May cause skin irritation		
Eyes	May cause eye irritaiton		
Ingestion	May be berneful if evellowed		

Section 3:Composition/Information on Ingredients							
*Composition Synonym:1,2,3,4-Butanetetrol meso-1,2,3,4-Tetrahydroxybutane i-Erythritol EC-NO:205-737-3							
Common Name	Cas No:	Molecular Weight	Formula	%by Weight			
				1			

Section 4:First-Aid Measures			
★Eye Contact	Immediately flush eyes with running water for at least 15 minutes,keeping eyelids open.Cold water may be used		
★SKin Contact	After contact with skin,wash immediately with plenty of water.Gently and thoroughly wash the contaminated		
	skin with running water and non-abrasive sopa.Be particularly careful to clean folds, crevices, creases		
	and groin.Cold water maybe used.Cover the irritated skin with an emollient.If irritation persists,		
	seek medical attention.Wash contaminated clothing before reusing.		
*Serious Skin C	ontact: Not Available		
★Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention		
★Seriouse Inhal	ation: Not Available		
★Ingestion	Do not include vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not		
Anigeonon	breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention		
*Serious Ingest	ion: Not Available		

Section 5:Fire -Fighting Measures				
★Flammability of the Product	May be combustible at high temperature			
*Auto-Ignition Temperature	Not Available			
★Flash Points	Not Available			
★Flammable Limits	Not Available			
★Products of Combustion	These producs are carbon oxides(CO,CO2)			
★Fire Hazards in Presence				
of Various Substances	Not Available			
★Explosion Hazards in prsence	Risks of explosion of the product in presence of mechanical impact; Not Available			
of Various Substances	Risks of explosion of the product in presence of static discharge:Not Available			
★Fire Fighting Media	Small Fire:Use Dry chemical powder			
and Instructions	Large Fire:Use water spray,fog or foam.Do not use water jet			
★Special Remarks on	Not Available			
Fire Hazards				
★Special Remarks on	Not Avalable			
Explosion Hazards				

	Section 6:Accidental Release Measures
★Small Spill	Use appropriate tools to put the spilled solid in a convenient waster disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements
★Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary sysytem

Section 7:Handling and Storage

Keep away fron heat. Keep away from sources of ignition. Empty contianers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material.Do not breathe dust

BIOTE *Storage:

Keep container dry.Keep in a cool place.Gournd all equipment containing material.Keep container fightly closed.Keep in a cool, well-ventilated place.Combustible materials should be stored away from extreme heat and away from strong oxidizing agents

Section 8:Exposure Controls and Personal Protection

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Contains no substances with occupational exposure limit values

★Personal protective equipment

Respiratory Protection

Respiratory protection is not required. Where protecton from nuisance levels fo dusts are desired, use type N95(US) or Type P1(EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH(US)or CEN(EU)

Hand Protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (withouth 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

Eye Protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US)or EN166(EU)

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place, the type of protective equipment must be selected according to the concentration and amoung of the dangerous substance at the specific workplace

Hygiene measures

General industrial hygiene practice

Section 9:Physical and Chemical Properties

Physical state and apperance: Solid

Odor: Not available

Taste: Not available

Molecular Weight:122.12g/mole

Color:Not available

PH(1% soln/water): Not available

Boiling Point:330°C(626°F)

Melting Point:119℃-123℃

Critical Temperature:Not available

Specific Gravity:Not available

Vapor Pressure: Not applicable

Vapor Density:Not available

Volatility:Not available

Odor Threshhold:Not available

Water/Oil Dist.Coeff:Not available

Lonicity(in water):Not available

Dispersion Properties: See solubility in water

Solubility: Easily soluble in cold water

Section 10:Stability and Reactivity

- **★Chemical Stability:**Stable under recommended storage conditions
- *Possibility of hazardous reactions:no data available
- **★Conditions to avoid:**no data available
- **★Materials to avoid:**Strong oxidizing agents,Strong bases
- *Hazardous decomposition products:

Hazardous decomposition products formed under fire conditions-Carbon oxide

Section 11:Toxicological Information

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*Acute toxicity

Oral LD50:no data available

Inhalation LC50:no data available

Dermal LD50:no data availabel

Other information on acute toxidity:LD50 Intraperitoneal-mouse-7000 mg/kg

Skin corrosion/irritation:no data available

Serious eye damage/eye irritation:no data available

Respiratory or skin sensitization:no data available

Germ cell mutagenicity:no data available

* Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as 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 idenfified 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 known or anticipated carcinogen by OSHA

Reproductive toxicity:no data available

Teratogenicity:no data available

Specific target organ toxicity-single exposure(Globally Harmonized System):no data available

Specific target organ toxicity-repeated exposure(Globally Harmonized System):no data available

Aspiration hazard:no data available

Potential health effects:

Inhalation

Maybe harmful if inhaled. May cause respiratory tract irritation

Ingestion

Maybe harmful if swallowed

Skin

Maybe harmful if absorbed through skin. May cause skin irritation

Eyes

May cause eyes irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

Synergistic effects:no data available

Additional Informaiton: RTECS: KF2000000

Section 12:Ecological Information(non-mandatory)

Ecotoxicity:Not available

BOD5 and COD:Not available

Products of Biodegradations: Possibly hazardous short term degradation products are not likely. However, long term

degradation products may arise

Toxicity of the Products of Biodegradation:Not available

Special Remarks on the Products of Biodegradation: Not available

Section 13:Disposal Consideration (non-mandatory)

Disposal can be treated as a common waste for disposal or dumped into a landfill site in accordance with relevant authority guidelines

Note BOD load of sugar solutions in waste water streams

Personal precautions should be observed

Section 14:Transport Information(non-mandatory)

General Information: As non-hazardous chemical.

Transport Requirements: Avoid toxic or other harmful materials. No special transport requirement are necessary

ADNR Class: Non-Hazardous

IMDG Code/Class: Not Hazardous

ICAO/IATA Air Class: Non- Hazardous

UN number:

None al ocated

Class:

Packaging Group:

None al ocated

Subsidiary Risk 1: None allocated RID/ ADR Class: Non-Hazardous

None al ocated Hazchem code: None

Incompatibilities:

Proper Shipping Name: None alocated

Marine Pollutant:

Section 15:Regulatory Information(non-mandatory)

OSHA Hazards

No known OSHA hazards

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, Scetion 302

SARA 313 Components

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

SARA 311/312 Hazards

No SARA Hazards

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

meso-Erythritol

149-32-6

New Jersey Right To Know Components

CAS NO.

Revision Date

meso-Erythritol

149-32-6

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Section 16:Other Information

References: Not available

Other Special Considerations:Not available

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