

Safety Data Sheet

*According to Regulation (EC) No 1907/2006, Annex II.
Amended by COMMISSION REGULATION(EU) 2015/830,
According to REGULATION(EC) No 1272/2008*

Thiamine Mononitrate (Thiamine Nitrate)

Version 1.0

Issue date:03-12-2018

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SDS Record Number:CSSS-TCO-010-129703

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Identification on the label/Trade name: Thiamine Mononitrate(Thiamine Nitrate)

Addition identification: Not available

Identification of the product: CAS# 532-43-4; EC# 208-537-4

Index Number: Not available

REACH registration No: Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against:

1.2.1 Identified uses: Food/Feed additives.

1.2.2 Uses advised against: No available.

1.3 Details of the supplier of the safety data sheet

supplier(only representative): -

supplier(Manufacturer): Jiangsu Brother Vitamins Co., Ltd.

Address: South of Wei er Road, Southern Area Ocean Economic Development Zone, Dafeng District, Yancheng City, Jiangsu Province

Contact person(E-mail): Stanley@brother.com.cn

Telephone: 0086-573-87015331

Fax: 0086-573-87015333

1.4 Emergency telephone Number

0086-573-87536768

Available outside office hours? Yes No

Section 2 Hazards Identification

2.1 Classification of the substance or mixture:

2.2.1 Classification:

According to REGULATION (EC) No 1272/2008, based on available data,the classification criteria are not met:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard codes
Not classified	N/A

2.2 Label elements

Hazard Pictograms: No hazard pictogram is used.

Signal Word(s): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

2.3 Other Hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Thiamine Mononitrate	N/A	532-43-4	208-537-4	98.5%-101.0%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

4.1.3 In case of eyes contact:

Flush eyes with water as a precaution.

4.1.4 In case of ingestion:

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

4.2 Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: Not available.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides.

5.3 Advice for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel: Use personal protective equipment. Avoid dust formation. Avoid breathing

6.1.2 For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

6.2 Environmental Precautions:

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up:

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

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures: Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.1.2 Advice on general occupational hygiene: Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Condition for safe storage, including any incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature 2-8°C

7.3 Specific end uses(s):

Not applicable.

Section 8 Exposure Controls/ Personal Protection

8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the condition of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN 166(EU).
Hand protection:	Handle with gloves.
Body protection:	Skin covering working clothes;wear dust-proof overalls if large quantities of dust are generated.
Respiratory protection:	Respiratory protection is not required.Where production from nuisance le (EN 143) dust masks. Use respirators and components tests and approved under appropriate government standards such as NIOSH(US) or CEN(EU).
Thermal hazards:	Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls: Avoid discharge into the environment. According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical

Appearance:	Crystalline powder or small,crystals.(EP)
Colour:	White or almost white. or colorless
Odour:	Usually having a slight, characteristic odor(USP)
Odour threshold:	Not available
pH:	Not available
Melting point/range(°C):	374–392° C
Boiling point/range(°C):	Not available
Flash point/range(°C):	Not available
Evaporation rate:	Not available
Flammability limit-lower(%):	Not available
Flammability(solid, gas):	Not available
Ignition temperature(°C):	Not available
Upper/lower explosive limits:	Not available
Vapour pressure(20°C):	Not available
Vapour density:	Not available
Density:	0.35 g/cm ³
Bulk density(kg/m ³):	Not available
Water solubility(g/l):	Not available
n-Octanol/Water(log Po/w)	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity, dynamic(mPa.s)	Not available
Explosive properties:	Not available
Oxidising properties:	Not available
Molecular Formula:	C ₁₂ H ₁₈ Cl ₁₂ N ₄ OS
Molecular Weight:	327.36

9.2 Other information

Fat solubility (solvent-oil to be specified) ect.:	Not available
Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available

Section 10 Stability and reactivity

10.1 Reactivity:	The substance is stable under normal storage and handling conditions.
10.2 Chemical stability	Stable at room temperature in closed containers under normal storage ar
10.3 Possibility of hazardous reactions	No dangerous reactions known.
10.4 Conditions to avoid	Incompatible materials.
10.5 Incompatible materials	Strong oxidizing agents.

10.6 Hazardous decomposition products: Carbon oxides, Nitrogen oxides(NOx), Sulphur oxides.

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity	
LD50(Oral, Rat):	Not available
LD50(Dermal, Rabbit):	Not available
LC50(Inhalation, Rat):	Not available
Skin corrosion/rritation:	Not classified
Serious eye damage/irritation:	Not classified
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenic:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard	Not classified

Section 12 Ecological information

12.1 Toxicity:

Acute(short-term) toxicity:	
LC50(96h, Fish):	Not classified
EC50(48h, Crustacea):	Not classified
EC50(72h, Algaelaquatic plants):	Not classified
Chronic (long-term) toxicity:	
NOEC(Fish):	Not available
NOEC(Crustacea):	Not available
NO50(Algae/aquatic plants)	Not available

12.2 Persistence and degradability Not available

12.3 Bioaccumulative potential Not available

12.4 Mobility in soil Not available

12.5 Results of pbt and vPvb assessment Not available

12.6 Other adverse effects Not available

Section 13 Disposal considerations

13. 1 Waste treatment methods Any disposal practical must be in compliance with all lical and national laws and regulations.Do not dump into any sewers,or into any body of water.

Section 14 Transport information

	Land transport (ADR/RID)	Inland waterways (AND)	Sea transport (IMDG)	Air transport (ICAO/ATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class (es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2

Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated
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Section 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant information regarding authorization Not applicable

Relevant information regarding restriction Not applicable

Other EU regulations Employment restrictions concerning young person must be observed. For use only by technically qualified individuals.

Other National regulations Not applicable

15.2 Chemical safety assessment Yes No

Section 16 Other information

16.1 Indication of changes

Version 1.0 Amended by(EU)2015/830

16.2 Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation for rail International transportation of Dangerous goods

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG. Code international maritime dangerous goods code

ICAO: International Civil Aviation Organization

IATA: International Air Transport Association

LC50: median lethal concentration

EC50: The effective concentration of substance that causes 50%of the maximum response

NOEC: No Observed Effect concentration

DNEL. derived no-effect level

PNEC: predicted no-effect concentration

16.3 Key literature references and sources for data

ECHA Registered substances data

16.4 Training instructions

Not applicable.

16.7 Further information

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.8 Notice to reader

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.