# According to Regulation (EU) No. 1907/2006

**MBTS** 

SDS Record Number: CSSS-TCO-010-120953 Version 1.2 Revision date: 15/01/2021

### Identification of the substance and of the company/undertaking

#### 1.1 Product identifier:

Printing date:15/01/2021

Identification on the label/Trade name: MBTS

Additional identification: di(benzothiazol-2-yl) disulphide Identification of the product: CAS#120-78-5; EC#204-424-9

Index Number: 613-135-00-0

REACH registration No.: 01-2119489366-24-XXXX

# 1.2 Relevant identified uses of the substance and uses advised against:

#### 1.2.1 Identified uses:

Production of tyres and general rubber goods

Tyre mounting and dismounting and handling of technical rubber goods Retreading

Use of tyres and general rubber goods

### 1.2.2 Uses advised against:

Not available.

# 1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited

Supplier(Manufacturer): Shandong Sunsine Chemical Co., Ltd.

Address: Economy & Technical Development Zone, Shanxian City, Shandong Province,

China.

 Contact person(E-mail):
 sale@sunsine.com

 Telephone:
 +86 530 4686360

 Fax:
 +86 530 4684121

### 1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours? YES NO X

# 2 Hazards Identification

# 2.1 Classification of the substance

### 2.1.1 Classification:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008		
Hazard classes/Hazard categories	Hazard codes	
Skin Sens. 1	H317	
Aquatic Acute 1	H400	
Aquatic Chronic 1	H410	

For full text of H- phrases: see section 2.2.

#### 2.2 label elements

#### Hazard Pictograms:



Signal Word(S): Warning

**Hazard Statement:** H317 May cause an allergic skin reaction.

Precautionary Statement: P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Chemical Inspection & Regulation Service Limited

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P302 + P352: IF ON SKIN: Wash with plenty of water.

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

### 2.3 Other hazards

Not available.

### 3 Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
di(benzothiazol-2-yl) disulphide	01-2119489366-2 4-XXXX	120-78-5	204-424-9	≥98
Distillates(petroleum),hydrotreate d heavy naphthenic	N/A	64742-52-5	265-155-0	≤1.5%
Unknown impurity	N/A	N/A	N/A	≤0.5%

### 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:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### 4.1.2 In case of skin contact:

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### 4.1.3 In case of eyes contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

#### 4.1.4 In case of ingestion:

Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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

May cause an allergic skin reaction.

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

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

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### 5 Fire-Fighting measures

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### 5.1 Extinguishing media:

Suitable extinguishing media: In case of fire, use water spray (fog), foam, dry chemical or CO2.

Unsuitable extinguishing media: Not available.

# 5.2 Special hazards arising from the substance or mixture:

No specific fire or explosion hazard. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides.

### 5.3 Advice for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6 Accidental release measures

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

### 6.1.1 For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training.

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Put on appropriate personal protective equipment.

### 6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

#### 6.2 Environmental Precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# 6.3 Methods for Containment and Cleaning up:

Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

# 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.

# 7 Handling and storage

#### 7.1 Precautions for safe handling:

#### 7.1.1 Protective measures:

Put on appropriate personal protective equipment (see section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep

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away from acids. Empty containers retain product residue and can be hazardous.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging materials Recommended : Use original container

Remarks: Take precautionary measures against electrostatic discharges.

### 7.3 Specific end use(s):

Not applicable.

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### 8 Exposure control/personal protection

# 8.1 Control parameters:

8.1.1 Occupational exposure limits: Not available.

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

#### 8.1.3 DNEL/DMEL and PNEC-Values:

Workers - Hazard via inhalation route-Systemic effects-Long term exposure-DNEL

(Derived No Effect Level): 8.8 mg/m³

Workers - Hazard via inhalation route-Systemic effects- Acute/short term exposure-DNEL (Derived No Effect Level): 70mg/m³

Workers - Hazard via dermal route- Systemic effects- Long term exposure- DNEL

(Derived No Effect Level): 5 mg/kg bw/day

Workers - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 40 mg/kg bw/day

General Population - Hazard via inhalation route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 2.2mg/m³

General Population - Hazard via inhalation route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 17.6mg/m³

General Population - Hazard via dermal route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level): 25mg/kg bw/day

General Population - Hazard via dermal route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 20mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Long term exposure- DNEL (Derived No Effect Level):

1.25 mg/kg bw/day

General Population - Hazard via oral route- Systemic effects- Acute/short term exposure - DNEL (Derived No Effect Level): 10 mg/kg bw/day

Hazard for aquatic organisms- PNEC aqua (freshwater): 0.027mg/L

Hazard for aquatic organisms- PNEC aqua (marine water): 0.003mg/L

Hazard for aquatic organisms- PNEC STP: 3.8 mg/L

Hazard for aquatic organisms- PNEC sediment (freshwater): 14.27 mg/kg sediment dw

Hazard for aquatic organisms- PNEC sediment (marine water): 1.427 mg/kg sediment dw

Hazard for terrestrial organisms- PNEC soil: 2.83mg/kg soil dw

### 8.2 Exposure controls

### 8.2.1Appropriate engineering controls:

Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.

8.2.2 Individual protection measures, such as personal protective equipment:

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Eye/face protection Wear appreciate goggles to prevent eye exposure. Hand protection Wear appreciate gloves to prevent skin exposure.

Body protection Wear suitable protective clothing to prevent skin exposure.

Respiratory protection Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory

equipment.

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.

### 9 Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Appearance: Granule Colour: Pale yellow Odour: Not available Odour threshold: Not available pH: Not available Melting point/range (°C): 164-179 °C Boiling point/range (°C): 240 °C Flash point (°C): Not available Evaporation rate: Not applicable

Flammability (solid, gas); Not a readily combustible solid

Ignition temperature (°C): Not available Not available. Upper/lower flammability/explosive limits: 1.35×10<sup>-9</sup>hPa Vapour pressure (25°C): Vapour density: Not applicable Relative Density: 1.5g/cm<sup>3</sup> Bulk density (kg/m3): Not available Water solubility (g/l): 0.27-0.37mg/l n-Octanol/Water (log Po/w): Not available Auto-ignition temperature: Not available Decomposition temperature: Not available Viscosity, dynamic (mPa s): Not determined Explosive properties: Not determined Oxidising properties: Not applicable Molecular Formula:  $C_{14}H_8N_2S_4$ 332.49 Molecular Weight:

# 9.2. Other information:

Fat solubility(solvent– oil to be specified) etc: Not available Surface tension: Not available

Dissociation constant in water( pKa): pKa(HL/H+L): ca. -0.59 at 25 °C pKa(H2L/H+HL): ca. 0.9 at 25 °C

Oxidation-reduction Potential: Not available

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# 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 and handling conditions.

# 10.3 Possibility of hazardous reactions:

Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with acids Reactions may include the following: liberation of toxic gas.

### 10.4 Conditions to avoid:

I ncompatible materials. Take precautionary measures against static discharges. In the case of dusty organic products the possibility of a dust explosion should always be considered.

# 10.5 Incompatible materials:

Acids.

# 10.6 Hazardous decomposition products:

Contact with acids liberates toxic gas.

### 11 Toxicological information

# 11.1 Toxicokinetics, metabolism and distribution

Non-human toxikological data: Not available Method: Not available Dosis: Not available Routes of administration: Not available Results: Not available Absorption: Not available Distribution: Not available Metabolism: Not available Excretion: Not available

### 11.2 Information on toxicological effects

### Acute toxicity:

LD50( Oral, Rat): >7940 mg/kg
LD50(Dermal Rabbit): >7940 mg/kg
LD50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

**Respiratory or skin sensitization:** May cause an allergic skin reaction.

Germ cell mutagenicity:

Not classified

Not classified

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reproductive toxicity:

STOT- single exposure:

Not classified

STOT-repeated exposure:

Not classified

Not classified

Not classified

# 12 Ecological information

**Toxicity:** 

Acute t	toxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
LC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: Not readily biodegradability.

Bioaccumulative potential: Not bioaccumulative.

Mobility in soil: Not available.

**Results of PBT&vPvB assessment:** Neither PBT nor vPvB.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

# 13 Disposal considerations

### 13.1 Waste treatment methods

The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

# 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number:	Not regulated	Not regulated Not regulated	
UN Proper	Not regulated	Not regulated	Not regulated
shipping name:			
Transport hazard Class:	Not regulated	Not regulated	Not regulated
Packaging group:	Not regulated	Not regulated	Not regulated
Environmental hazards:	Not regulated	Not regulated Not regulat	
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

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15 Regulation 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.

Х

Other National regulations: Not applicable

Chemical Safety Assessment has been carried out? YES NO

16 Other information

**16.1 Indication of changes** Version 1.2 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 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.

16.4 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.