



## MERCHEM LIMITED

### SAFETY DATA SHEET

MERTISER DBD 100%  
MSDS No. 37/20.03.2015

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name	Mertiser DBD 100%
Synonym	O,O-Dibenzamidodiphenyldisulfide N,N'-Dithiodi-o-phenylenedibenzamide

### 1.2 Use of the Substance/Mixture

Identified uses	Rubber processing chemical – viscosity regulator, peptizing agent
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### 1.3 Manufacturer or supplier's details

Company/Undertaking identification address	Merchem Limited Grove Centre, 44- Development Plot, Kalamassery, Cochin – 683 109, Kerala, India
Telephone	+ 91-484-4089300
Telefax	+ 91-484-4089310
Email	mail@merchem.com

### 1.4 Emergency Telephone Number

Emergency Telephone Number	+ 91-484-4089300
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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to EU directives 67/548/EEC or 1999/45/EC

Xi  
N  
R51/53  
R43

#### REGULATION (EC) No. 1272/2008

Skin sensitisation (Category 1 )  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

EC Number: 205-201-9

Annex 1 Index Number: Not available

### 2.2 Label elements

Product Name: Mertiser DBD 100%



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#### Hazard pictograms



#### Signal word

Warning

#### Hazard statement

H317 May cause an allergic skin reaction.

H410 Very Toxic to aquatic life with long lasting effects.

#### Precautionary statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P273 - Avoid release to the environment

#### Precautionary statement – Response

P302 +P352 - IF ON SKIN: Wash with plenty of soap and water

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

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P391 - Collect spillage

#### Precautionary statement – Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Precautionary statement – disposal

P501 - Dispose of contents/container to an approved incineration plant

### 2.3 Other hazards

#### PBT and vPvB assessment

No information available

#### Other hazards which do not result in classification

No information available

**Note: For the full text of the R phrases, S phrases, and symbols mentioned in this Section, see Section 16**



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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

**Chemical description:** Dibenzamidodiphenyldisulfide

### Composition/Information on ingredients

Chemical Name	CAS No.	EC No.	Annex-1 No.	Weight %
Dibenzamidodiphenyldisulfide	135-57-9	205-201-9	Not available	>97

### 3.2 Substances

Not applicable

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>General Advice</b>	If symptoms persist, call a physician. Show this material safety data sheet to the doctor in attendance. Treat symptomatically. In case of allergic reaction after exposure, any future exposure must be avoided.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Remove contact lenses Obtain medical attention
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Thoroughly clean shoes before reuse. If skin irritation persists, call a physician
<b>Inhalation</b>	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting. Treat symptomatically. If swallowed, seek medical advice immediately and show this container or label. Loosen tight clothing such as collar, tie, belt and waistband

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

- Allergic reactions

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

- No information available

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media



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<b>Suitable extinguishing media:</b>	Dry chemical powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
<b>Extinguishing media which must not be used for safety reasons:</b>	High volume water jet

#### **5.2 Specific hazards arising from the substance or mixture**

<b>Specific hazards</b>	Combustible material Dust may form explosive mixture in air Heating can release noxious and toxic gases: Carbon monoxide Sulphur oxides Nitrogen oxides (NOx)
<b>Specific methods</b>	Keep product and empty container away from heat and sources of ignition Do not flush into surface water or sanitary sewer system Prevent product from entering drains Collect contaminated fire extinguishing water separately. This must not be discharged into drains

#### **5.3 Protective Equipment and Precautions for Firefighters**

Wear full protective clothing and self-contained breathing apparatus

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

- Avoid contact with skin, eyes and clothing
- Evacuate personnel to safe areas
- Keep people away from and upwind of spill/leak
- Wear respiratory protection
- Wear suitable protective clothing, gloves and eye/face protection

#### **6.2 Environmental precautions**

- Remove immediately adhering matter
- Prevent product from entering drains
- Do not flush into surface water or sanitary sewer system

#### **6.3 Methods and materials for containment and cleaning up**

- Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container
- Do not flush with water



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- Avoid dust formation
- Use a suitable vacuum cleaner
- Use explosion-proof equipment

#### **6.4 Reference to other sections**

See section 7,8 &13

## SECTION 7: HANDLING AND STORAGE

### **7.1 Precautions for safe handling**

- Use only in area provided with appropriate exhaust ventilation
- Use spark-proof tools and explosion-proof equipment
- Avoid dust formation
- Avoid contact with skin, eyes and clothing
- Wear personal protective equipment
- Do not breathe vapours/dust
- Wash hands after handling
- Remove contaminated clothing and protective equipment before entering eating areas

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

- In accordance with local and national regulations
- Keep in a dry, cool place
- Do not store near acids
- Do not store together with oxidizing and self-igniting products
- Use spark-proof tools and explosion-proof equipment
- Keep away from heat and sources of ignition

### **7.3 Specific end uses**

No further relevant information available.

## SECTION 8: EXPOSURE CONTROL/PERSONNEL PROTECTION

### **8.1 Control parameters**

**Occupational exposure limit values**

No data available

### **8.2 Exposure controls**

**Engineering Controls:**

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

**Personal Protective Equipment:**

**Eye/face Protection**

Tightly fitting safety goggles or Face-shield

**Skin Protection**

Wear suitable protective clothing/equipment



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#### Hand Protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The suitability for a specific workplace should be discussed with the producers of the protective gloves

#### Respiratory Protection

In accordance with local and national regulations In case of insufficient ventilation, wear suitable respiratory equipment. Where necessary should conform to EN 143, EN 149 or equivalent

#### Environmental exposure controls

Prevent product from entering drains  
Do not contaminate surface water  
Avoid subsoil penetration

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical State	Powder
Color	Pale yellow
Odor	No discernible odour
Boiling point/Range	Not applicable
Melting point/Range	138 – 142°C
Flash Point	>200°C
Flammability	No data available
Auto-ignition temperature	No data available
Explosive properties	Product does not present an explosion hazard
Explosion Limit	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Density	1.2-1.4 g/cm <sup>3</sup>
Bulk density	450-550 kg/m <sup>3</sup>
Solubility in water	practically insoluble
pH	No data available
Partition coefficient (n-Octanol-water)	No data available
Relative vapor density	No data available
Viscosity	No data available

### 9.2 Other information

No data available



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#### SECTION 10: STABILITY AND REACTIVITY

##### 10.1 Reactivity

- See Incompatible Materials

##### 10.2 Chemical Stability

- Stable under recommended storage and handling conditions (See section 7)

##### 10.3 Possibility of hazardous reactions

- See Incompatible Materials

##### 10.4 Conditions to Avoid

- Avoid dust formation
- Keep away from heat and sources of ignition

##### 10.5 Incompatible materials to avoid

- Oxidizing agents

##### 10.6 Hazardous Decomposition Products

- Heating or fire can release toxic gas
  - Carbon oxides
  - Nitrogen oxides (NOx)
  - Sulphur oxides



#### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute oral toxicity</b> (LD50/oral/rat):	>300 mg/Kg
<b>Acute dermal toxicity</b> (LD50/dermal/rabbit):	>2.5 mg/Kg
<b>Acute inhalational toxicity:</b>	May cause irritation of respiratory tract
<b>Eye irritation:</b>	May cause irritation and redness
<b>Skin irritation/Sensitization:</b>	May cause sensitization by skin contact
<b>Mutagenic Effects</b>	No data available on this product
<b>Reproductive toxicity:</b>	No data available on this product
<b>Carcinogenic effects:</b>	No data available on this product
<b>Target Organ Effects:</b>	No data available on this product
<b>Human experience:</b>	No data available on this product

#### SECTION 12: ECOLOGICAL INFORMATION

##### 12.1 Ecotoxicity

Toxicity to fish                      static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 10 mg/l - 96 h



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#### **12.2 Mobility in soil**

Not known

#### **12.3 Persistence and degradability**

No further relevant information available

#### **12.4 Bioaccumulative Potential**

No further relevant information available

#### **12.5 Results of PBT and vPvB assessment**

No further relevant information available

#### **12.6 Other adverse effects**

None known based on information supplied

#### **12.7 Other information**

Do not allow product to reach ground water, water course or sewage system. Also, poisonous for fish and plankton in water bodies. Toxic for aquatic organisms. Do not allow product to reach ground water, water course or sewage system, even in small quantities.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **13.1 Waste Disposal Method**

##### **Product**

- Dispose of in accordance with local regulations
- Do not allow into drains, water courses or where ground/surface waters may be affected.

##### **Packing**

- Contaminated packaging should be treated as for the substance/preparation

### **SECTION 14: TRANSPORT INFORMATION**

#### **14.1 Road transport (ADR/RID)**

ADR/RID Class	9
UN-No	3077
Packing Group	III
Hazardous label	Hazardous for the environment
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-Dibenzamido diphenyl disulfide)





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#### 14.2 Sea transport (IMDG)

Class	9
UN-No	3077
Packing Group	III
EMS Number	F-A, S-F
Marine pollutant	Yes
Hazardous label	Hazardous for the environment
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-Dibenzamido diphenyl disulfide)

#### 14.3 Air transport (ICAO-TI/IATA-DGR)

Class	9
UN-No	3077
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-Dibenzamido diphenyl disulfide)

#### 14.4 Other information

No data available

#### 14.5 Environmental hazards

Information on environmental hazards, pls. see 14.1 - 14.3.

#### 14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles

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

Not relevant

### SECTION 15: REGULATORY INFORMATION

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

Regulation 1907/2006 REGULATION (EC) No 1272/2008

Classification according to EU directives 67/548/EEC or 1999/45/EC

#### 15.2 Chemical Safety Assessment

No data available





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#### SECTION 16: OTHER INFORMATION

Issue No.	2
Issue date	20.03.2015
Revision No.	0
Reason for revision	Reviewed & revamped based on the guide lines of Regulation (EC) No 1907/2006

#### Classification of dangerous substance directive (67/548/EEC)

- Xi: irritant
- N: Dangerous for the environment
- R43: May cause sensitisation by skin contact.
- R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

#### Training advice

Provide adequate information, instruction and training to operators.

#### Further information for the material safety data sheet

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

**End of Material Safety Data Sheet**