



MERCHEM LIMITED

SAFETY DATA SHEET

MSDS NO. 37/28.04.2011

MERCURE F

1. IDENTIFICATION OF THE COMPOUND OR PREPARATION AND COMPANY/UNDERTAKING

Product Name	:	MERCURE F
Supplier	:	Merchem Limited, Grove Centre, 44 Development Plot, Kalamassery Cochin – 683 109, Kerala, India Tel. + 91-484-4089300 Fax. + 91-484-4089310, 2532877 E mail: mail@merchem.com ; Web: http://www.Merchem.com
Emergency Telephone	:	+ 91-484-4089300, (Fax. + 91-484-4089310) Merchem Limited, Cochin, India
Intended Use	:	Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name and : Blend containing 2,2`-dithiobisbenzothiazole , diphenylguanidine hexamethylenetetramine.

CAS No. :

Ingredients	% w/w	CAS NO	Danger Symbol	R Phrases
2, 2` - dithiobisbenzothiazole	≈ 70%	120-78-5	Xi, N	R22, R31, R36/37/38, R50/53
Diphenylguanidine	≈ 20%	102-06-7	Xi, N	
Hexamethylenetetramine	≈ 10 %	91773-48-7	Xi, N	

3. HAZARD IDENTIFICATION

This health hazard assessment is based on a consideration of the composition of this product.
Harmful if swallowed, can cause eye damage and is a skin irritant.

Toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environments.

4. FIRST AID AND MEASURES

Inhalation	:	Remove patient from exposure and move to fresh air. Obtain medical attention if ill effects occur
Skin Contact	:	Wash skin with plenty of soap and water. If symptoms (irritation) persist, obtain medical attention.
Eye Contact	:	Irrigate immediately with clean water, holding the eyelids apart, for at least 15 minutes. Get medical attention if irritation persists.
Ingestion	:	Do not induce vomiting. Wash out mouth with water and get medical attention.



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5. FIRE FIGHTING MEASURES

- Combustible** : Decomposition products on heating or due to fire may produce carbon monoxide, nitrogen dioxide or hydrocyanic acids.
- Extinguishing Media** : Water Spray, foam, dry chemical powder or CO₂.
- Fire Fighting** : Use self contained breathing apparatus . no special recommendations.
- Protective Equipment** : Protective clothing should be worn in fire conditions including self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Do not allow to enter drains, sewers or watercourses
Collect spillages dry covered containers for subsequent disposal as per the local regulations. Minimize generating dust while cleaning. Flush the spilled area with water and collect wash-water for disposal.

7. HANDLING AND STORAGE

- Handling** : Avoid contact with skin and eyes. Wear safety glasses and hand gloves; Take measures against static electric charges.
- Storage** : Keep away from oxidising agents, acids, heat and direct sunlight. Provide adequate ventilation and local exhaust.
Storage Temperature : Ambient.
Storage Life : 1-2 year under normal conditions of storage.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Wear suitable gloves and eye/face protection. Wear suitable respiratory protective equipment .Wear mask, dust respirator, gloves safety goggles of face protectives.Wash thoroughly after handling.

- Occupational Exposure Limits** : No Occupational Exposure Limit Assigned.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Powder
Colour	:	Pale yellow.
Odour	:	Characteristic aromatic.
Specific gravity	:	1.4
pH (Value)	:	Not applicable.
Boiling Point (°C)	:	Not applicable
Melting Point (°C)	:	Approx. 145 °C
Flash Point (°C)	:	Not Available
Flammable Limits	:	Not Available
Auto ignition Temperature	:	Not available
Solubility (Water)	:	Partially soluble.

10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable when stored at NTP in closed containers. Stable under normal conditions of handling, use & transportation.
Hazardous Polymerisation	:	Will not occur
Conditions to Avoid	:	Keep away from heat, sparks and flame. Avoid contact with strong oxidants.
Materials to Avoid	:	Oxidising agents, and concentrated acids.
Hazardous Decomposition Product(s)	:	See 'Fire fighting measures'.

11. TOXICOLOGICAL INFORMATION

LD50/Acute Toxicity	:	Not determined.
Inhalation	:	Limited possibility of over-exposure.
Skin Contact	:	May cause skin irritation. May cause sensitization on repeated skin contact.
Eye Contact	:	May cause irritation.



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12. ECOLOGICAL INFORMATION

Wastes are hazardous to environment and any disposal should be as per the local regulations .
Ecological Information's on the major component viz., 2,2'-dithiobisbenzothiazole;

Ecotoxicity	:	
Fish	:	96h-LC50 (Lepomis macrochirus): 82 mg/l. 96h-LC50 (Oncorhynchus mykiss): 66 mg/l. 96h-LC50 (Pimephales promelas): > 1000 mg/l. 48h-EC50 (Daphnia magna): 82 mg/l.
Daphnia	:	48h-EC50 (Daphnia magna): 82 mg/l.
Algae	:	48h-EC50 (Daphnia magna): 82 mg/l.

13. DISPOSAL CONSIDERATIONS

Product	:	Avoid discharge into the environment. Small quantities: Dispose according to local regulations or incinerate in incinerators with after-scrubbers. Large quantities: Consult Merchem for special advice.
Waste code number	:	Please refer to your specific industry in the European Waste Catalogue.

14. TRANSPORT INFORMATION

<u>Land Transport ADR/RID</u>	:			
ADR/RID Class	:	9	Packing Group	: III
UN No.	:	3077		
Shipping Name	:	Environmentally Hazardous substance, solid, n. o. s.		
<u>Sea Transport (IMDG)</u>	:			
IMDG Class	:	9	Packing Group	: III
UN No.	:	3077		
Shipping Name	:	Environmentally Hazardous Substance, Solid, n. o. s.		
<u>Air Transport (IATA /ICAO)</u>	:			
IATA/ICAO Class	:	9	Packing Group	: III
UN No.	:	3077		
Shipping Name	:	Environmentally Hazardous Substance, solid, n. o. s.		



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15. REGULATORY INFORMATION

Symbols

:



IRRITANT (Xi)



DANGEROUS FOR THE ENVIRONMENT (N)

Risk Phrases

:

- R 22 : Harmful if swallowed .
- R 31 : Contact with acids liberates toxic fumes.
- R 36/37/38 : Irritating to eyes, respiratory system and skin .
- R 43 : May cause sensitization by skin contact .
- R 50/53 : Very toxic to aquatic organisms; May cause long-term adverse effect in the aquatic environment .

Safety Phrases

:

- S 22 : Do not breath dust .
- S 24 / 25 : Avoid contact with skin and eyes .
- S 36 / 37 : Wear suitable protective clothing and gloves .
- S 60 : This material and/its container must be disposed of as hazardous waste.
- S 61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

16. OTHER INFORMATION

HMIS rating

:

- Health : 2
- Flammability: 1
- Reactivity : 0
- PPI : X
- Legend : 0 (HMIS) Minimal Hazard
1 (HMIS) Slight hazard
2 (HMIS) Moderate hazard
3 (HMIS) Serious hazard
4 (HMIS) Severe hazard

Use

- X (HMIS) Personal protective rating to be supplied by user depending on the use condition
- : Vulcanization Accelerator.

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product