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Revised edition no : 4

Date: 18 / 9 / 2011

Supersedes : 23 / 1 / 2008

N: R50 (M fact. = 10)

MERPAN 50 WP

R-5782.DPD

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

Trade name : MERPAN 50 WP
Product code : R-5782.DPD
Chemical formula : C9H8Cl3NO2S
Use : Fungicide

Company identification : Makhteshim Chemical Works Ltd.

PO Box 60

Beer Sheva 84100 Israel. Fax: +972-8-6296848 MSDS@ma-industries.com

Emergency phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

2. Hazards identification

Human health hazards : Irritating to eyes.

May cause sensitization by skin contact. Limited evidence of a carcinogenic effect.

Environmental hazard : Very toxic to aquatic organisms.

3. Composition/information on ingredients

This product is considered to be hazardous and contains hazardous components.

Substance name		Value(s)	CAS No	EC No	Index No	REACH Reg.	Classification
Captan (ISO)	:	50 %	133-06-2	205-087-0	613-044-00-6		Carc. Cat. 3; R40 T; R23 Xi: R41
							D42

4. First aid measures

Undesirable human health effects

Repeated exposure may cause contact dermatitis. .

Eye contact : Redness, tears.

First aid

Ingestion : Do not induce vomiting. Wash out mouth with plenty of water.

Never give anything by mouth to an unconscious person.

Consult a doctor.

Skin contact : Remove affected clothing and wash all exposed skin area with soap and water,

followed by warm water rinse. Consult a doctor in the event of any complaints. .

Eye contact : If pain persists, consult an eye specialist. .

Wash off with plenty of water

Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention.

Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy. If

ingested perform gastric lavage and administer activated charcoal.

5. Fire-fighting measures

Extinguishing media : For small fire : foam , dry chemical , carbon dioxide .

For large fire: foam, water fog, water spray.

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5. Fire-fighting measures (continued)

Special exposure hazards : Thermal decomposition generates : carbon dioxide , carbon monoxide , nitrogen

oxides, hydrogen chloride, sulfur oxide, CSCI2.

Protection against fire : Wear proper protective equipment. Use self-contained breathing apparatus when in

close proximity to fire.

Special procedures : Fight fires from a protected location . Dike fire control water for later disposal. .

6. Accidental release measures

Personal precautions : Use appropriate protection (see section 8).

Environmental precautions : Dispose of this material and its container at hazardous or special waste collection

point If the product has contaminated surface water, inform the appropriate

authorities

After spillage and/or leakage : Collect spilled material with shovel, place into a clean container and cover

container loosely .

7. Handling and storage

Handling : Do not breathe dust. Avoid contact with skin and eyes. .

Storage : Keep locked up Keep container tightly closed. . Keep only in the original container

in a cool, well ventilated place. Keep container dry .

Packing : Woven polypropylene big bags .

Woven polypropylene bags with multi-ply paper inserts and polyethylene lining .

8. Exposure controls/personal protection

Industrial hygiene : Facilities storing or utilizing this material should be equipped with an eyewash

facility and safety shower . Wash clothing before re-using. Wash hands thoroughly

after nandling

- Respiratory protection : During spraying wear suitable respiratory equipment.

- **Skin protection** : Wear suitable protective clothing Chemical resistant boots.

- Hand protection : Wear suitable gloves.

- Eye protection : Chemical goggles or safety glasses.

TLV-TWA [mg/m3] : (USA) Captan 5, A3 (1996)

9. Physical and chemical properties

Physical state : Amorphous powder

Colour : Off-white

Odour : Faint characteristic
pH value in distilled water : (5%) 5.0-8.5
Molecular weight : 300.61 (Captan)
Melting point [°C] : 158 - 164 (Captan)

Final boiling point [°C] : Decomposes (Captan)



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9. Physical and chemical properties (continued)

: 550-650 g/l (full compaction) **Bulk density**

: 2.01 x (10)-4 Pa (50°C - Pure) (Captan) Vapour pressure

Solubility in water : Insoluble (Captan) Log P octanol : KOW = 610 (Captan)

: Not flammable **Flammability Explosion limits** : Not explosive

10. Stability and reactivity

Physico-chemical stability : Stable under normal dry conditions.

Hazardous decomposition products Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen

oxides, sulfur oxide, hydrogen chloride, CSCI2.

Hazardous reactions : Alkali materials, such as lime and Bordeaux mixture will reduce fungicidal

activity .

Hazardous Polymerization : Will not occur.

Conditions to avoid : Protect from sunlight, sources of heat, open flame, moisture.

11. Toxicological information

: > 5000 Oral, Rat LD50 [mg/kg] Dermal, Rat LD50 [mg/kg] : > 2000 Inhalation, Rat LC50 [mg/l/4h] : > 2.6

Skin corrosion/irritation : Mildly irritating Serious eye damage/ irritation : Irritating to eyes.

Respiratory or skin sensitization

: Guinea pig maximization test: Moderate sensitizer

: Captan: A two-year feeding study of Captan indicated duodenal tumors in mice Carcinogenicity after repeated administration of high dose levels. The NOEL (No Observed Effect

Level) was 400 ppm. No evidence of carcinogenicity was observed in long-term studies with rats. Information on the mechanism of these tumors establishes a threshold for the duodenal tumors, and indicates that this tumor type is not relevant

for human risk assessment at likely exposure levels.

Germ cell mutagenicity : Captan: Not mutagenic (in-vivo tests)

Reproductive toxicity : Captan: Not teratogenic in animal experiments

12. Ecological information

: No ecological information is known on the product. The data below are for **Ecological effects information**

Captan: Very toxic to aquatic organisms. (algae and fish) in laboratory

experiments .

Low toxicity in actual use, due to its hydrolytic instability .

LD50 Birds [mg/kg] : > 2000

Persistence and degradability

: The product is readily biodegradable . : Product does not leach to ground water.

Mobility

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12. Ecological information (continued)

Bioaccumulative potential : Captan Does not bioaccumulate in aquatic organisms

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

- UN No. : 3077

- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (50% captan)

- Packing group : III - Class : 9 - H.I. nr : : 90

- ADR/RID

- ADR class : 9
- ADR Packing group : III
- ADR Symbols : 9

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

15. Regulatory information

EU Classification : This product is provisionally labelled by the supplier in accordance with the

suppliers understanding of the EU regulations

Symbol(s)





: Xn: Harmful.

N: Dangerous for the environment.

R Phrase(s) : R36 - Irritating to eyes.

R40 - Limited evidence of a carcinogenic effect. May cause sensitization by skin contact.

R50 - Very toxic to aquatic organisms. S02 - Keep out of the reach of children.

S Phrase(s) : S02 - Keep out of the reach of children. S13 - Keep away from food, drink and animal feedingstuffs.

S20/21 - When using, do not eat, drink or smoke.

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S35 - This material and its container must be disposed of in a safe way.

S61 - Avoid release to the environment. Refer to special instructions/Safety data

sheets.

16. Other information

Recommended uses and restrictions : None.

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16. Other information (continued)

List of full text of R-phrases in section 3. : R23 - Toxic by inhalation.

R40 - Limited evidence of a carcinogenic effect.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitization by skin contact.

R50 - Very toxic to aquatic organisms.

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