



# Mancozeb 750 DF

## Safety Data Sheet

according to the United Nations GHS (Rev. 7, 2017)

SDS reference: INDIA

Issue date: 12/6/2021 Revision date: 3/2/2022 Supersedes: 12/6/2021 Version: 2.0

### SECTION 1: Identification

#### 1.1. GHS Product identifier

Product form : Mixture  
Name : Mancozeb 750 DF  
Synonyms : Penncozeb 75 DF  
Manzate 75 DF  
Penncozeb 750 WG  
Zenith 75 DF

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fungicide

#### 1.4. Supplier's details

UPL Limited  
CTS No. 610 B/2, Bandra Village,  
Off Western Express Highway, Behind Teacher's Colony,  
IN- Bandra (East) Mumbai, 400051 – Maharashtra  
India  
T +91-(022) 7152 8000

#### 1.5. Emergency phone number

Emergency number : This SDS is listed with CHEMTREC. Country specific CHEMTREC emergency numbers stated below are operational 24X7.

Country	Organisation/Company	Emergency number	Comment
India	CHEMTREC	000 800 1007 141	Toll Free
China	CHEMTREC	400 120 4937	Local Number
Hong Kong	CHEMTREC	800 968 793	Toll Free
Japan	CHEMTREC	0800-300-5842	Toll Free
Malaysia	CHEMTREC	+60 3-9212 5794	Local Number
Malaysia	CHEMTREC	1-800-81-5308	Toll Free
Philippines	CHEMTREC	+63 2 8 395 3308	Local Number
Philippines	CHEMTREC	1800 1 116 1020	Toll Free
Taiwan	CHEMTREC	+886 2 7741 4207	Local Number
Taiwan	CHEMTREC	00801-14-8954	Toll Free
Thailand	CHEMTREC	001-800-13-203-9987	Toll Free

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Reproductive toxicity, Category 2

H361

Hazardous to the aquatic environment — Acute Hazard, Category 1

H400

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Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

### 2.2. GHS Label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)

:



Signal word (GHS UN)

: Warning

Hazard statements (GHS UN)

: H361 - Suspected of damaging the unborn child.

H400 - Very toxic to aquatic life

Precautionary statements (GHS UN)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, eye protection, face protection.

P308+P313 - IF exposed or concerned: Get medical advice.

P391 - Collect spillage.

P405 - Store locked up.

P501 - Dispose of contents and container to an approved waste disposal plant, hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
Mancozeb	CAS-No.: 8018-01-7	75

Full text of H-statements: see section 16

## SECTION 4: First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact

: Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact

: Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects

: Not expected to present a significant hazard under anticipated conditions of normal use.

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

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### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Sand.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective actions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.  
Other information : Do not eat, drink or smoke during use.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves. Wear protective gloves.  
Eye protection : Safety glasses. Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask

Personal protective equipment symbol(s)



#### 8.4. Exposure limit values for the other components

No additional information available

### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

Physical state : Solid  
Appearance : Yellowish olive Brown free flowing granules  
Colour : Yellowish to brown  
Odour : odourless.  
Odour threshold : Not available  
Melting point : Not available  
Freezing point : Not applicable  
Boiling point : Not available  
Flammability (solid, gas) : Not flammable, Non flammable.  
Explosive limits : Not applicable  
Lower explosive limit (LEL) : Not applicable  
Upper explosive limit (UEL) : Not applicable  
Flash point : Not applicable  
Auto-ignition temperature : Not applicable  
Decomposition temperature : Not available  
pH : 7.59  
pH solution : Not available  
Viscosity, kinematic (calculated value) (40 °C) : Not applicable  
Partition coefficient n-octanol/water (Log Kow) : Not available  
Vapour pressure : Not available  
Vapour pressure at 50 °C : Not available  
Density : 0.56 g/ml                      Pour density  
Relative density : Not available  
Relative vapour density at 20 °C : Not applicable  
Solubility : Not available  
Particle size : Not available  
Particle size distribution : Not available  
Particle shape : Not available  
Particle aspect ratio : Not available

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Particle specific surface area : Not available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions. Not established.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Not established.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. fume. Carbon monoxide. Carbon dioxide, Carbon monoxide, Carbon dioxide, Nitrogen oxides (NOx), Oxides of sulfur, Carbon disulphide, Hydrogen sulphide, Ethylenethiourea

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified.

Mancozeb 750 DF	
LD50 oral rat	> 5000 mg/kg
LD50 oral	> 2000 mg/kg Japanese quail
LC50 Inhalation - Rat	5.282 mg/l
ATE UN (vapours)	5.282 mg/l/4h
ATE UN (dust,mist)	5.282 mg/l/4h

Mancozeb (8018-01-7)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rat	≥ 5000 mg/kg
LC50 Inhalation - Rat	≥ 5.14 mg/l

Skin corrosion/irritation : Slightly irritant but not relevant for classification  
pH: 7.59

Serious eye damage/irritation : Slightly irritant but not relevant for classification  
pH: 7.59

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

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Mancozeb (8018-01-7)	
Additional data	NOAEL, rat: 125 ppm (4.8 kg bw/g) Not carcinogenic
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
Mancozeb (8018-01-7)	
Additional information	Not classified
STOT-repeated exposure	: Not classified
Mancozeb (8018-01-7)	
Additional information	Not classified
Aspiration hazard	: Not classified
Mancozeb 750 DF	
Viscosity, kinematic	Not applicable
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	: Calculation method
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Mancozeb (8018-01-7)	
LC50 - Fish	< 1 mg/l (96h <i>Salmo gairdneri</i> )
EC50 - Crustacea	< 1 mg/l (48h <i>Daphnia magna</i> )
ErC50 algae	< 1 mg/l (72h <i>Selenastrum capricornutum</i> )

### 12.2. Persistence and degradability

Mancozeb 750 DF	
Persistence and degradability	Not established.
Mancozeb (8018-01-7)	
Persistence and degradability	Not readily biodegradable.

### 12.3. Bioaccumulative potential

Mancozeb 750 DF	
Bioaccumulative potential	Not established.
Mancozeb (8018-01-7)	
Partition coefficient n-octanol/water (Log Kow)	1.38

### 12.4. Mobility in soil

Mancozeb 750 DF	
Mobility in soil	No additional information available

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### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available  
Other information : Avoid release to the environment.



## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with IMDG / IATA

IMDG	IATA
<b>14.1. UN number</b>	
3077	3077
<b>14.2. UN Proper Shipping Name</b>	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb)
<b>14.3. Transport hazard class(es)</b>	
9	9
	
<b>14.4. Packing group</b>	
III	III
<b>14.5. Environmental hazards</b>	
Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available	

### 14.6. Special precautions for user

#### IMDG

Special provisions (IMDG) : 274, 335, 966, 967, 969  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
Special packing provisions (IMDG) : PP12  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS

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Stowage category (IMDG) : A

### IATA

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
Special provisions (IATA) : A97, A158, A179, A197, A215  
ERG code (IATA) : 9L

### 14.7. Transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

## SECTION 16: Other information

Issue date : 06/12/2021  
Revision date : 02/03/2022  
Supersedes : 06/12/2021

Other information : None.

Full text of H-statements:	
H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.