



# SAFETY DATA SHEET

## BLITZ

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. **Product identifier** **BLITZ**  
**Other Name** **Mancozeb 75% WG**
- 1.2. **Relevant identified uses of the substance or mixture and uses advised against** Fungicide
- 1.3. **Details of the supplier of the safety data sheet** Indofil Industries Limited  
Kalpataru Square, 4th Floor,  
Kondivita Road, Off. Andheri Kurla Road,  
Andheri (E), Mumbai 400 059, Maharashtra, India  
Tel : 0091 22 66637373  
Fax: 0091 22 28322275  
E-mail : [mkt@indofil.com](mailto:mkt@indofil.com)
- 1.4. **Emergency telephone number** +49 (0) 6132-84463

### SECTION 2: Hazards identification

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

**Classification according to REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, (UK SI 2019/720, and UK SI 2020/1567)**

Classification according to Regulation (EC) No 1272/2008[CLP/GHS]

Health Hazard: Skin Sens. 1, Repr. Cat. 2, Eye Irrit. Cat. 2

Environmental Hazard: Aquatic Acute 1 (M factor-10)  
Aquatic Chronic 2

#### 2.2. Label elements:

**Label elements according to REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, (UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms:



Signal word: Warning

Hazard Statements:

H317: May cause an allergic skin reaction.  
H319: Causes serious eye irritation.  
H361d: Suspected of damaging the unborn child  
H400: Very toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P201: Obtain special instructions before use.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.



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### Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Storage:

P405: Store locked up

### Disposal:

P501: Dispose of contents/container to in accordance with local and national regulations

### Supplemental hazard information:

EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.

### Label elements according to Directive 2003/82/EC and to Regulation (EU) No 547/2011

SP 1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

**2.3 Other hazards:** None

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

Chemical name	%	CAS	ELINECS	Index Nr. Regulation (EC) No1272/2008 Annex VI	Classification Regulation (EC) No 1272/2008 [CLP]
Mancozeb	75	8018-01-7	--	006-076-00-1	Repr. 2, Skin Sens. 1, Aquatic Acute 1; H361d - H317 -H400

Mancozeb Technical contain Hexamethylenetetramine.  
For the complete text of H statements, please refer to section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>In general</b>	Never give fluids or induce vomiting if patient is unconscious or is having convulsions.
<b>After Ingestion</b>	Do not induce vomiting. Provided the patient is conscious. wash mouth with water and give plenty of water to drink. Consult a physician. The decision of whether to induce vomiting or not should be made by a physician.
<b>After eye contact</b>	Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
<b>After skin contact</b>	Immediately wash skin with soap and plenty of water. Consult a physician if irritation develops.
<b>After Inhalation</b>	Remove to fresh air. Consult a physician if irritation develops

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

**Skin contact** There may be mild irritation at the site of contact



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**Eye contact** There may be irritation and redness. The vision may become blurred

**Ingestion** There may be soreness and redness of the mouth and throat

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

Supportive care. Treatment based on judgement of physician In response to symptoms of patient

### Emergency Personnel Protection

If potential for exposure exists refer to Section 8 for specific personal protective equipment. First Aid responders should pay attention to self-protection and use the recommended protective clothing.

## SECTION 5: Fire-fighting measures

**5.1. Extinguishing media** Water spray. Carbon dioxide. Dry chemical powder.

**Unsuitable extinguishing media:** Full water jet.

**5.2. Special hazards arising from the substance or mixture** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating. Combustion products include: Hydrogen sulphide. Carbon disulphide. Nitrogen oxides. Sulphur oxides. Carbon oxides

**5.3. Advice for fire-fighters** Wear protective clothing and self-contained breathing apparatus. Run-off from fire control may be a pollution hazard. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

**Additional Information** Do not permit dust to accumulate. Dust layers can be ignited by spontaneous combustion or other ignition sources. When suspended in air dust can pose an explosion hazard. Keep containers cool by spraying with water. Contain runoff to prevent entry into water or drainage systems. Avoid breathing smoke. Work upwind of any spill.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures** Eliminate all sources of ignition. Do not create dust. Wear appropriate safety clothing and eye/face protection (see Section 8). Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly.

**6.2. Environmental precautions** Do not discharge into drains or rivers. Contain the spillage using bunding. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up** Spills should be cleaned up immediately using care to minimise generation of airborne dust. Do not use equipment in clean-up procedure which may produce sparks. Collect all waste material and place in closable marked containers. For large spills, barricade area



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and consult manufacturer. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

- 6.4. Reference to other sections** See Section 1 for emergency contact information  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information

### SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Use good personal hygiene. Do not consume or store food in the work area. Proper ventilation is recommended to control dust formation. Transfer equipment should be grounded and bonded to avoid static charge and spark-proof equipment should be used. Wash hands and exposed skin before eating, drinking or smoking and after work.
- 7.2. Conditions for safe storage, including any incompatibilities** Product should be stored in compliance with local regulations. Store in a cool, dry, well-ventilated place in the original container. This product is combustible and should not be exposed to flames or other ignition sources. Do not allow material to become wet or overheated in storage; decomposition, impaired activity or fire may result. Do not store near food, drink, animal feeding stuffs, pharmaceuticals, cosmetics or fertilisers. Keep out of reach of children. Must only be kept in original packaging
- 7.3. Specific end uses** Use as an agricultural/horticultural fungicide

### SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters** Not relevant  
**8.2. Exposure control**

**Control of professional exposure** Provide appropriate exhaust ventilation at machinery and at places where dust can be generated

#### Personal Protection:

**Respiratory protection** Wear dual cartridge respirator for dusts and mists. For most conditions, no respiratory protection should be needed. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

**Hand /Skin protection** For brief contact, no precautions other than clean body-covering clothing and chemical resistant gloves should be needed. Use chemical resistant gloves classified under standard EN 374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Nitrile. Polyvinyl chloride ('PVC' or 'vinyl'). Neoprene. When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all requisite workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), as well as the instructions/specifications provided by the glove supplier.

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. For emergency conditions: Use protective clothing impervious to this material. Selection of specific items will depend on operation.



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<b>Eyes/Face protection</b>	Safety glasses should be sufficient for most operations; however, for dusty operations wear chemical goggles
<b>Engineering Controls</b>	Ventilation: Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there is no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Granules
<b>Colour</b>	Greenish yellow to light yellow
<b>Odour</b>	Musty
<b>Odour threshold</b>	no data available
<b>pH-value</b>	no data available
<b>Melting/Decomposition temp</b>	Not applicable/decomposes 192-204°C
<b>Boiling point</b>	no data available
<b>Flash Point</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Flammability</b>	not applicable
<b>Upper/lower flammability or explosive limits</b>	no data available
<b>Vapour pressure</b>	Negligible
<b>Relative density</b>	no data available
<b>Solubility in water</b>	Dispersible
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	no data available
<b>Viscosity</b>	no data available
<b>Explosive properties</b>	no data available
<b>Oxidising properties</b>	no data available

9.2. Other information no data available

### SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	No dangerous reactions known under conditions of normal use
<b>10.2. Chemical stability</b>	Stable under normal conditions
<b>10.3. Possibility of hazardous reactions</b>	Acids and moisture (in storage). Excessive heat. Open flames
<b>10.4. Conditions to avoid</b>	Acids and moisture (in storage). Excessive heat. Open flames
<b>10.5. Incompatible materials</b>	Acids
<b>10.6. Hazardous decomposition products</b>	None under normal conditions of storage and use. Thermal decomposition products include Hydrogen sulphide. Carbon di Sulphide



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### SECTION 11: Toxicological information

#### Hazard classes<sup>1</sup>

**Hazardous ingredients** (Assessment largely or completely based on active substance data)

#### Acute toxicity

by ingestion (rat)	The LD50 is >2,000 mg/Kg
by skin contact (rat)	The LD50 is >2,000 mg/Kg
by inhalation (rat)	The LC50, 4 h is >3.53 mg/L
Skin irritation (rabbit)	Not irritating
Eye irritation (rabbit)	May cause eye irritation
Skin sensitization (guinea-pig)	Not sensitising

#### Germ Cell Mutagenicity

There was no evidence for the induction of gene mutations or cell transformation (Mancozeb).

#### Carcinogenicity

NOAEL = 125 ppm (4.8 mg/kg bw/d)

Not carcinogenic (Mancozeb) (rat)

#### Reproductive toxicity

Suspected of damaging the unborn child.

#### STOT – Single exposure

Not classified

#### STOT – Re exposure

Not classified

#### Aspiration Hazard

Not classified

#### Other

### SECTION 12: Ecological information

#### 12.1. Toxicity:

Assessment largely or completely based on active substance data

Aquatic organisms	Fish Cyprinus Carpio	Acute (96h)	LC <sub>50</sub> > 1.0 mg/L
	Daphnia magna	Acute (48h)	0.1 mg/L < EC <sub>50</sub> ≤ 1.0 mg/L
	Algae Pseudokirchneriella Subcapitata	Acute (72h)	0.1 mg/L < EC <sub>50</sub> ≤ 1.0 mg/L 0.01 mg/L < NOEC ≤ 0.1 mg/L
Terrestrial organisms	Birds	Acute	LD50 > 2000 mg/kg
	Honeybees	Acute	Oral LD50 > 100 µg/bee Contact LD50 > 100 µg/bee

#### 12.2. Persistence and degradability

Half-life in soils is dependent on soil type and conditions and is approximately 6-15 days

#### 12.3. Bio-accumulation potential

Bio-concentration potential is low.  
Partition coefficient, n-octanol/water (log Pow): 1.38

#### 12.4. Mobility in soil

Potential for mobility in soil is low.

<sup>1</sup> As defined in Regulation (EC) 1272/2008



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Partition coefficient, soil organic carbon/water (Koc): 1000 Estimated

### 12.5. Results of PBT and vPvB assessment

According to Directive 1907/2006/EC (REACH) none of the substances, contained in this product is considered to be persistent, bioaccumulating and toxic (PBT).

According to Directive 1907/2006/EC (REACH) none of the substances, contained in this product is considered to be very persistent and very bioaccumulating (vPvB).

### 12.6. Other adverse effects

Very toxic to aquatic organisms.  
Hazardous water pollutant

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Very toxic to aquatic organisms. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility  
The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Product/packaging

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes

## SECTION 14: Transport information

### Land transport (ADR/RID):

#### 14.1. UN number

3077

#### 14.2. UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. Mancozeb (ISO)

#### 14.3. Transport hazard class(es)

9

#### 14.4. Packing group:

III

#### 14.5 Environmental hazards:

Environmentally hazardous

Hazard label:

9



#### 14.6 Special precautions for user

Classification code:

M7

Limited quantity:

5 kg

Transport category:

3

Hazard No:

90

Tunnel restriction code:

E

### Inland waterways transport:

#### 14.1. UN number

3077

#### 14.2. UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. Mancozeb (ISO)

#### 14.3. Transport hazard class(es)

9

#### 14.4. Packing group:

III

#### 14.5 Environmental hazards:

Marine pollutant

Hazard label:

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#### 14.6 Special precautions for user



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Classification code: M7  
Limited quantity: LQ27

### Marine transport (IMDG):

14.1. UN number 3077  
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. Mancozeb (ISO)  
14.3. Transport hazard class(es) 9  
14.4. Packing group: III  
14.5 Environmental hazards: Marine pollutant  
Hazard label: 9  
14.6 Special precautions for user  
Classification code: M7  
Limited quantity: 5 kg / 30 l  
EmS: F-A, S-F



### Air transport (ICAO)

14.1. UN number 3077  
14.2. UN proper shipping name Environmentally hazardous substance, solid, n.o.s. Mancozeb (ISO)  
14.3. Transport hazard class(es) 9  
14.4. Packing group: III  
14.5 Environmental hazards: Environmentally hazardous  
Hazard label: 9  
14.6 Special precautions for user  
Limited quantity Passenger: Y956 / 30 kg G  
IATA-packing instructions Passenger: 956  
IATA-max. quantity Passenger: 400 kg  
IATA-packing instructions Cargo: 956  
IATA-max. quantity Cargo: 400 kg



### **SECTION 15: Regulatory information**

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

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

#### **15.2 Chemical Safety Assessment**

To avoid risks to man and the environment, comply with the instructions for use.  
For proper and safe use of this product, please refer to the approval conditions laid down on the product label.  
No CSR required because it is a plant protection product.

### **SECTION 16: Other information**

#### **Abbreviations and acronyms**

**ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road**

**RID = Regulations concerning the International Transport of Dangerous Goods by Rail**





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**ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways**

**IMDG = International Maritime Code for Dangerous Goods**

**IATA/ICAO = International Air Transport Association / International Civil Aviation Organization**

**MARPOL = International Convention for the Prevention of Pollution from Ships**

**IBC = Code International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk**

**GHS = Globally Harmonized System of Classification and Labelling of Chemicals**

**REACH = Registration, Evaluation, Authorization and Restriction of Chemicals**

**CAS = Chemical Abstract Service**

**EN = European norm**

**ISO = International Organization for Standardization**

**VOC = Volatile organic compound**

**PBT = Persistent Bioaccumulative and Toxic**

**vPvB = Very Persistent and very Bio-accumulative**

**bw = body weight**

**LD = Lethal dose**

**LC = Lethal concentration**

**EC = Effect concentration**

**IC = Median immobilisation concentration or median inhibitory concentration**

**NOEC = No Observed Effect Concentration**

**NOEL = No Observed Effect Level**

**NOAEL = No Observed Adverse Effect Level**

### H-Statements used in Section 3:

H317: May cause an allergic skin reaction.

H361d: Suspected of damaging the unborn child.

H400: Very toxic to aquatic life.

### Classification procedure:

- On basis of test data
- Calculation method

### Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company, Indofil Industries Limited shall not be held liable for any damage resulting from handling or from contact with the above product.