



Arysta LifeScience

REFERENCE :  
FDS KE001EN

UPDATING  
INDICE :  
01

DATE :  
18/06/2007

**IVORY 80 WP**

Material Safety Data Sheet according to Annex II of Reach

**1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

Product/substance name **IVORY 80 WP**  
Product / substance use Fongicide

Supplier Arysta LifeScience SAS  
BP 80 Route d'Artix  
64150 Noguères - France  
Tel. : 05 59 60 92 92  
Fax. : 05 59 60 92 99  
Web Site : <http://www.arysta-eame.com>

Emergency telephone number  
Toxico vigilance + 33 (0) 5 59 60 92 25 (business hours).  
Transport accident + 33 (0) 5 59 60 92 92 (business hours).  
Treatment center for poisoning cases + 33 (0) 1 40 05 48 48  
PARIS  
Other emergency numbers 20 387 32 47 (ALS Kenya)

**2 – HAZARDS IDENTIFICATION**

Physical and chemical hazards -  
Health hazards Irritating to respiratory system  
May cause sensitization by skin contact  
Environmental hazards Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.  
Others hazards *Classification according to the WHO classification : **Class III***

**3 - COMPOSITION/INFORMATIONS ON INGREDIENTS**

**Chemical information**

Wettable Powder (WP)  
Mancozeb 80%


Chemical name	N° CAS	N° EINECS N° CE	Classification	Concentration (%)
Mancozeb	8018-01-7	-	Xi, R37 ; R43	80

*For the complete text of R sentences, please refer to chapter 16.*

**4 – FIRST AID**

In general Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from chilling. Do not administer anything by oral route and do not try to make vomit, call a treatment center for poisoning cases or a doctor. Take the label

\* paragraph modified at last update

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where possible.

After Inhalation	Immediately remove to fresh air. Call a doctor immediately.
After eye contact	Rinse immediately and thoroughly with plenty of water during at least 10 to 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if pain or redness persists.
After skin contact	Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
After Ingestion	Call a doctor immediately and show the label. Do not induce vomiting.
Medical instructions	Product with carbamate, inhibitor of cholinesterase. <u>Antidote</u> : Atropine sulfate by intravenous administration at the doses rate of 2 to 4 mg every 15 minutes for 48 hours.


## **5 – FIRE-FIGHTING MEASURES**

Extinguishing means	Water spray, foam, dry chemical powder.
Unsuitable extinguishing means	Water jet.
Special exposure hazards	By thermic decomposition, possibility of formation of toxic gases (sulfur oxide, phosphorus oxide, nitrogen oxide, carbon oxide, chlorides).
Particular protective measures	Intervention personnel should wear mask and individual respiratory equipment. Retain water or extinguishing media and eliminate safely.

## **6 – ACCIDENTAL RELEASE MEASURES**

Personal protection	Withdrawal combustion sources, sufficient respiratory ventilation / protection, fight against dusts, prevention to skin and eyes contact.
Environmental protection	Avoid sewage, surface water, ground water and soil contamination.  Retain spilled liquids and collect them with sand or other absorbent inert material (sepiolite). Absorbent inert material stocks have to be sufficient to face reasonably predictable spillage. Keep sewers from potential spillage to minimize pollution hazards. Do not throw washing waters into sewers. Contact competent authorities when a situation cannot be controlled rapidly and efficiently. In the case of spillage into water, stop dispersion of the product with adequate barrier.
Methods for cleaning up	Collect contaminated products on the surface concerned, transfer to closed drums before sending in a specialized incineration treatment center. Wash the contaminated surface with water and collect washing

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waters for treatment.  
 Cover the contaminated zone using absorbent materials such as sand or sepiolite.

Particular points

## **7 - HANDLING AND STORAGE**

Handling	Do not eat, drink or smoke when using. Wear appropriate protective clothes, adequate gloves, glasses or masks. Avoid prolonged or frequent contact of skin with new or old product. Respect good hygienic body conditions and cleanliness of the working area. Wash hands abundantly after handling. Do not wash working clothes with household linen.
Storage requirements	Store under cover, in an appropriate room, away from heat and sources of fire at temperature <35°C. Keep away from food, drink and animal feedingstuffs. Do not store in room at temperature below -5°C

## **8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

General measures	When using refer in priority to information written on the label.
Exposure limits	TLV not established. MAK not established.
Control of professional exposure	
Respiratory protection	Preferably wear a mask covering all face with filter appropriate to dust and aerosol. (filter type AP)
Hand protection	Wear single-use gloves of good quality.
Eyes protection	Preferably wear a face screen or protective glasses.
Skin protection	Wear appropriate, and if possible disposable, clothes.

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**9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Grey Yellow Powder
Odour	Musty
pH	6-8
Boiling point / range	Not Applicable
Flash point	Not Applicable
Flammability	May burn spontaneously from a severe source of heat.
Explosives properties	Risks of explosion almost none in the recommended conditions of storage see point 7. Real risk in case of fire or accumulation of the emanations
Combustive properties	None
Vapour pressure	
Relative density	0.4 to 0.55 depending on the degree of compaction.
Solubility	
- Water	Not Miscible
- Organic solvents	Not Miscible with almost all organic solvents.
Hydrosolubility	Not Determined
n-octanol/water coefficient	Not Determined
Viscosity	Not Determined
Vapour pressure	<1 x 10 <sup>-5</sup> mm Hg at 20°C
Evaporation rate	Not Determined
Other information	-

**10 - STABILITY AND REACTIVITY**

Conditions to avoid	Avoid storage at temperature > 35°C in a confined place.
Materials to avoid	Avoid contact with strong oxidant and strong acids and basis.
Hazardous decomposition products	See point 5.

**11 - TOXICOLOGICAL INFORMATION**

Acute toxicity		
by ingestion (rat)	LD <sub>50</sub> >	2000.00 mg/kg
by skin contact (rat)	LD <sub>50</sub> >	2000.00 mg/kg
by inhalation (rat)	LC <sub>50</sub> (4 h) >	2.752 mg/L
Skin irritation (rabbit)	Not irritating	
Eye irritation (rabbit)	Irritating	
Skin sensitization (guinea-pig)	Mild skin sensitizer	

**12 - INFORMATIONS ECOLOGIQUES**

Ecotoxicity		
Toxicity for aquatic organism (acute and chronic)	LC <sub>50</sub> (96 h, <i>Rainbow trout</i> ) fish =	0.088 mg/L
	EC <sub>50</sub> (48 h, <i>Daphnia magna</i> ) daphnia =	2.670 mg/L
	EC <sub>r50</sub> (72 h, <i>S. capricornutum</i> ) algae =	1.249 mg/L



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Toxicity for birds  
Toxicity for bees

LD<sub>50</sub> bird > 2000.0 mg/kg  
LD<sub>50</sub> oral > 140.6 µg/bee  
LD<sub>50</sub> contact = 161.7 µg/bee

Toxicity for soil  
micro-organisms and  
macro-organisms

LC<sub>50</sub> (14 d, *Eisenia foetida*) > 1000 mg/kg soil  
NOEC (56 d, *Eisenia foetida*) = 20 mg/kg soil

Mobility  
Persistence and degradability  
Potential of bioaccumulation  
Results of PBT evaluation

Rapidly degrades in the environment by hydrolysis, oxidation, photolysis, volatilization and bio-degradation.  
DT50 (soil) = 1-7 days  
Mancozeb adsorbs into soil and therefore leaching should not occur.

Other harmful effects

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**13 - DISPOSAL CONSIDERATIONS:**

Product/packaging

Disposal of important amounts must be made by duly authorized specialists.  
Incineration should be made in authorized and specialized plant.  
Eliminate the product and its packaging with care and in a responsible way.  
Do not throw near ponds, rivers, ditches or into sewers.  
Wash contaminated surfaces with water and collect washing waters for treatment.  
Make sure that local regulations are respected.  
Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals on-site.. For more information, please call your distributor or call the World Bank: 1-202-458-2841


Washing products

Do not throw into sewer. Do not contaminate natural waters.  
Clean up application materials on the treated area and eliminate waters by spraying on one area.

**14 - TRANSPORT INFORMATION**

Regulation	RID/ADR (Terrestrial)	IMDG (Maritime)	OAC/IATA (Aerial)
O.N.U code	3077	3077	3077
Class	9	9	9
Packaging number			
Specific point / code	M7	Marine pollutant	
Packaging group	III	III	III
Marine pollutant (Y/N)		Y	
Wording	Substance dangerous to the environment, solid, n.s.a. (mancozeb)		

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## **15 – REGULATORY INFORMATION**

### **Labelling according WHO guidelines**

#### **CLASS III, Slightly Hazardous, CAUTION**

Risk phrase(s)	R37: Irritating to respiratory system R43: May cause sensitization by skin contact R50/53: Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
Safety phrase(s)	S1/2: Keep locked up and out of reach of children. S3/9/49: Keep only in the original container in a cool, well-ventilated place. S13: Keep away from food, drink and animal feeding stuffs. S20/21: When using do not eat, drink or smoke. S23: Do not breathe sprays. S24/25: Avoid contact with skin and eyes. S29: Do not empty into drains. S36/37/38: Wear suitable protective clothing, gloves and face protection. S51: Use only in well-ventilated areas. S60: This material and its container must be disposed of as hazardous waste.

### **Other prescriptions**

To avoid risks to man and the environment, comply with the instructions for use. (Directive 1999/45/EC, Article 10, n° 12)

Storage classification (ICPE): 1172 (French regulation)

## **16 - OTHER INFORMATION**

### **R phrases text of dangerous substances (written in chapter 3) :**

R37: Irritating to respiratory system  
 R43: May cause sensitization by skin contact

This MSDS completes technical use sheets but does not replace them. Information herein is based on our present knowledge concerning the product, at the edition date. It is honestly given.

The attention of users is drawn to potential risks taken when the product is used for other uses than those for which it is made.

The user has to know and comply with all regulations concerning its activity.

It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

The aim of all the regulations mentioned is to help the person concerned to comply with the rules which are his own responsibility. This listing cannot be considered as exhaustive. The person concerned has to make sure that he has no other obligations due to texts specific to particular applications.