

PRODUCT SAFETY INFORMATION SHEET

BASF

PRODUCTS: **OPPONENT**
COVERSHIELD

DATE: 08/01/2010
VERSION: 5
PAGE: 1 of 7

1. SUBSTANCE/PREPARATION AND COMPANY NAME

Product Name: **OPPONENT** **COVERSHIELD**
MAPP Number: 10877 10900
Company: BASF plc
PO Box 4
Earl Road
Cheadle Hulme
Cheadle
Cheshire SK8 6QG

Tel: 0161 485 6222
Fax: 0161 486 0891

\ Emergency information: 0049 1802 273112 (24 hours freephone)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Use : Agricultural fungicide
Formulation: A suspo-emulsion containing 12.3 % w/w (133 g/litre) pyraclostrobin plus 6.2 % w/w (67 g/litre) kresoxim-methyl plus 4.6% w/w (50 g/litre) epoxiconazole

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>% w/w</u>	<u>Symbol</u>	<u>R Phrases</u>
\ Pyraclostrobin	175013-18-0	12.3	T, N	R23, 38, 50/53
\ Kresoxim-methyl	143390-89-0	6.2	Xn, N	R40, 50/53
\ Epoxiconazole	133855-98-8	4.6	Xn, N	R40, 62, 63, 51/53
\ Solvent naphtha	64742-94-5	>= 14.8 – <= 16.65	Xn, N	R65, 66, 51/53
\ Naphthalene	91-20-3	>= 1.85 - <= 3.7	Xn, N	R22, 40, 50/53
\ Fatty alcohol ethoxylate	68002-96-0	<= 15	T, N	R23, 50
\ Phenosulfonic acid-formaldehyde-polycondensate as sodium salt (polymer; starting materials listed in EINECS)	-	<= 7	-	R52/53

Format based on 91/155/EEC

\ A backslash in the left hand margin indicates an amendment from the previous version.

3. **HAZARDS IDENTIFICATION**



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

HARMFUL BY INHALATION AND IF SWALLOWED (R20/22)
LIMITED EVIDENCE OF A CARCINOGENIC EFFECT (R40)
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT (R50/53)

4. **FIRST AID MEASURES**

General advice: Remove contaminated clothing

Eye contact: Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.

Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Ingestion: Immediately rinse mouth then drink plenty of water. Seek medical attention immediately.

Inhalation: Keep person calm, remove to fresh air, summon medical help.

Unconscious-ness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Pyraclostrobin and kresoxim-methyl are strobilurin fungicides
Epoxiconazole is a triazole fungicide.

Toxic effects: This material is of moderate general toxicity.

Symptoms of accidental over exposure: There is no documentation of pathological effects in humans.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

5. **FIRE FIGHTING MEASURES**

\ Suitable extinguishing media: Water spray, foam, dry extinguishing media, carbon dioxide

\ Possible harmful fumes in a fire: Carbon monoxide, hydrogen chloride, hydrogen fluoride, carbon dioxide, nitrogen oxides and organochloric compounds can be released. Avoid breathing smoke and fumes.

Protective equipment: In case of fire wear self-contained breathing apparatus and protective clothing. Fire/explosion fumes should not be inhaled.

- \ Further information: Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the DEFRA publication "Code of practice for using plant protection products."

6. **ACCIDENTAL RELEASE MEASURES**

- \ If spilled: Wear prescribed protective clothing. Clear spillage immediately. Contain spillage and absorb onto earth, sand or suitable absorbent material. Collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the DEFRA publication "Code of practice for using plant protection products."

Wash thoroughly immediately after handling spillages, or at once if contaminated.

Personal protective equipment: See Section 8.

Environmental precautions: Do not allow contamination of public drains or surface or ground waters. Prevent product from entering water courses or the ground. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. **HANDLING AND STORAGE**

Handling: No special measures are necessary provided the product is used correctly. When using do not eat, drink or smoke.

Protection against fire and explosion: Incombustible, non-flammable, non-explosive.

Storage: Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

- \ (i) **PRECAUTIONS (from product label)**

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective clothing:
WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate.
WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

AVOID ALL CONTACT WITH SKIN.
WASH HANDS AND EXPOSED SKIN before meals and after work.
WHEN USING DO NOT EAT, DRINK OR SMOKE.

Environmental protection

Do not contaminate surface waters or ditches with chemical or used container.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
KEEP OUT OF REACH OF CHILDREN.
KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
DO NOT RE-USE CONTAINER for any purpose.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.
Store in a suitable pesticide store. Keep dry and protect from frost.

(ii) **PERSONAL PROTECTIVE EQUIPMENT**

Hand Protection:

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and repeated use of these gloves depends upon spillages being washed off immediately. The gloves should be thoroughly washed after each operation.

General safety & hygiene measure:

The usual precautions for the handling of chemicals must be observed.
Keep away from foodstuffs, animal feedstuffs and beverages.

\ The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the DEFRA publication "Code of Practice for using plant protection products". Decontaminate all personal protective equipment after use. When this is not possible dispose of as contaminated wastes.

(iii) **OCCUPATIONAL EXPOSURE LIMITS (OESs)**

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
Not applicable		

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Liquid (supso-emulsion)
Colour:	White
Odour:	Faintly aromatic
Flash point:	Non flammable
Density:	1.076 g/l (20°C)
Solubility in water:	Dispersible

10. **STABILITY AND REACTIVITY**

Hazardous reactions: No decomposition if stored and applied as directed.

Substances to avoid: Unknown.

Hazardous decomposition products: None if stored and handled correctly.

11. **TOXICOLOGICAL INFORMATION**

Acute toxicity:

Ingestion:	Moderate toxicity	(LD50 oral (rat): 627 mg/kg)
Skin contact:	Not irritant	(LD50 dermal (rat): >4000 mg/kg)
Inhalation of vapour:	Unlikely to cause a problem	(LC50 inhalation (rat) 4h: >3.51 mg/l)
Eye contact:	Not irritant	
Sensitising potential:	No sensitising effect	

Experiences in humans:

Solvent naphtha: lung damage, skin irritation, irritations of the mucous membrane.

Avoid all unnecessary contact with the product.

12. **ECOLOGICAL INFORMATION**

Ecotoxic effects:	Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50 96h:	0.053 mg/l
	Algae EC/LC50 (0-72 h):	0.081 mg/l
	Daphnia EC/LC50 (48h):	2.28 mg/l

13. **DISPOSAL CONSIDERATIONS**

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.

\ Disposal of used containers: Follow the directions given in the DEFRA publication "Code of practice for using plant protection products".

\ Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the DEFRA publication "Code of practice for using plant protection products".

14. **TRANSPORT INFORMATION**

UN Number : 3082
Packing Group III

ROAD/RAIL

ADR/RID Class : 9

SEA

IMDG Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains pyraclostrobin 12.3% and solvent naphtha). Marine Pollutant.

AIR

ICAO/IATA Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains pyraclostrobin 12.3% and solvent naphtha). Marine Pollutant.

Pack sizes : 5 litres
No per outer : 4

15. **REGULATORY INFORMATION**

This product is approved under the "Control of Pesticides Regulations 1986" and is labelled accordingly.

R-phrases - see Section 3

S-phrases - see Section 8

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

16. **OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407333 (24 hours).

A backslash in the left hand margin indicates an amendment from the previous version.

\ Full text of hazard symbols and R phrases if mentioned as hazardous components in Section 2:

Xn Harmful
N Dangerous for the environment
T Toxic

R22 Harmful if swallowed
R23 Toxic by inhalation
R38 Irritating to skin
R40 Limited evidence of a carcinogenic effect
R50 Very toxic to aquatic organisms
R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the

	aquatic environment
R52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R65	Harmful may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.