

CORTEZ

R-20465

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

Trade name : CORTEZ
Type of product : Fungicide
Chemical formula : Epoxiconazole : C17H13ClFN3O
Chemical description : (2RS,3RS)--(2-chlorophenyl)-2-(4-fluorophenyl)-2-[(1H-1,2,4-triazol-1-yl) methyl] oxirane
Company identification : Irvita Plant Protection N.V.
 Pos Cabai Office Park, Unit 13,
 P.O.Box 403
 Curaçao
 Tel: 599-9-738-4096 / 738-4040 Fax: 599-9-738-4005
 MSDS@ma-industries.com
Emergency phone nr : 972-3-6106666 Subscription no. 36789 (Makhteshim)

2. Hazards identification

Human health hazards : Limited evidence of a carcinogenic effect.
 Possible risk of impaired fertility.
 Possible risk of harm to the unborn child.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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
Epoxiconazole	: 125 g/l	133855-98-8	406-850-2	613-175-00-9	-----	Carc. Cat. 3; R40 Repr. Cat. 3; R62 Repr. Cat. 3; R63 N; R51-53
Alkoxylated fatty alcohol	: > 10 %	68002-96-0	-----	-----	-----	T; R23 N; R50
Solvesso 200	: > 10 %	64742-94-5	265-198-5	649-424-00-3	-----	Xn; R65

4. First aid measures

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.
Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Immediately consult an eye specialist.
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If you feel unwell, seek medical advice.
Note to physician : No specific antidote known. Treat symptomatically and give supportive therapy.

5. Fire-fighting measures

Extinguishing media : Water spray , water fog , foam .

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5. Fire-fighting measures (continued)

- Special exposure hazards** : Thermal decomposition may generate : carbon monoxide , carbon dioxide , nitrogen oxides , hydrogen chloride , HF .
- Protection against fire** : Wear suitable protective clothing. Self-contained breathing apparatus.
- 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, In accordance with national and regional regulations . If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.
- After spillage and/or leakage** : In the event of minor spillage: Absorb in sand or other inert material . Use appropriate container to avoid environmental contamination.
In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

7. Handling and storage

- Handling** : Do not breathe fumes. 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 (<50 °C)

8. Exposure controls/personal protection

- Industrial hygiene** : Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Wash hands thoroughly after handling. Wash clothing before re-using.
- Personal protection**
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
 - **Skin protection** : Wear protective clothing and chemical resistant boots .
 - **Hand protection** : Wear suitable gloves.
 - **Eye protection** : Safety goggles or face shield
- Occupational Exposure Limits**
- TLV** : Epoxiconazole : Not established

9. Physical and chemical properties

- Physical state** : Liquid
- Colour** : White
- Odour** : characteristic
- pH value** : 6.5-8.5 at a temperature of 20 °C
- Molecular weight** : Epoxiconazole : 329.8

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9. Physical and chemical properties (continued)

Melting point [°C]	: Epoxiconazole : 136.1-137.6°C
Density	: 1.03 - 1.05
Viscosity	: 467 cP. Surface tension = 65.7 mN/m.
Solubility in water	: Dispersible
Flash point [°C]	: >100
Explosion limits	: Not explosive

10. Stability and reactivity

Physico-chemical stability	: Stable under normal conditions.
Hazardous decomposition products	: Thermal decomposition may generate : carbon dioxide , carbon monoxide , nitrogen oxides , hydrogen chloride , HF ,
Hazardous reactions	: Avoid contact with : strong bases and strong bases .
Hazardous Polymerization	: Will not occur.
Conditions to avoid	: Protect from sunlight , open flame and sources of heat . Decomposes upon heating.

11. Toxicological information

Toxicity information	: No toxicological information is known on the product. For a similar formulation containing 125 g/l Epoxiconazole:
Oral, Rat LD50 [mg/kg]	: > 2000
Dermal, Rat LD50 [mg/kg]	: > 2000
Inhalation, Rat LC50 [mg/l/4h]	: > 5.00
Skin corrosion/ irritation	: Not irritant
Serious eye damage/ irritation	: Not irritant
Respiratory or skin sensitization	: Guinea pig maximization test: Non sensitizer
Carcinogenicity	: Cat.3 : Limited evidence of a carcinogenic effect.
Reproductive toxicity	: Cat.3 : Possible risk of impaired fertility. Cat.3 : Possible risk of harm to the unborn child.

12. Ecological information

Ecological effects information	: No ecological information is known on the product. For a similar formulation : containing 125 g/l Epoxiconazole:
96 H-LC50 - Rainbow trout [mg/l]	: 7.8
96 H-LC50 - Carp [mg/l]	: 11.4
48 H-LC50-Daphnia magna [mg/l]	: 17
72 H-EbC50 - Algae [mg/l]	: 0.28
72 H-ErC50 - Algae [mg/l]	: 7

13. Disposal considerations

Disposal	: Dispose in a safe manner in accordance with local/national regulations.
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13. Disposal considerations (continued)

14. Transport information

- UN No. : 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (125 g/l EPOXICONAZOLE)
- Packing group : III
- Class : 9
- H.I. nr : 90
- IMDG-Marine pollution : YES

15. Regulatory information

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

Symbol(s)



: Xn: Harmful.
N: Dangerous for the environment.

R Phrase(s)

: R40 - Limited evidence of a carcinogenic effect.
R50/53 - Very toxic 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.

S Phrase(s)

: S13 - Keep away from food, drink and animal feedingstuffs.
S35 - This material and its container must be disposed of in a safe way.
S36/37 - Wear suitable protective clothing and gloves.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62 - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label.

16. Other information

Recommended uses and restrictions : None.

List of full text of R-phrases in section 3.

: R23 - Toxic by inhalation.
R40 - Limited evidence of a carcinogenic effect.
R50 - Very toxic to aquatic organisms.
R51/53 - Toxic 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.

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16. Other information (continued)

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