Dithianon WG

FOR CONTROL OF SCAB ON APPLES AND Pears
A water dispersible granule containing 70% w/w Dithianon.

Danger:
Toxic if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Suspected of causing cancer.
Very toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/ eye and face protection.
Avoid breathing dust.
If in eyes: rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison centre or doctor/physician.
Store locked up.
Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

To protect aquatic organisms respect an unsprayed buffer zone of 20m to surface water bodies.

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

Supplied by:
BASF Ireland Limited
P.O. Box 4, Earl Road
Cheadle Hulme, CHEADLE
Cheshire SK8 6QG, UK
Tel: 01 825 5701
Fax: 01 825 2038
Emergency Information
(24 hours freephone):
0049 180 227 3112
Technical Enquiries:
0044 (0)845 602 2553 (office hours)

Authorization holder:
BASF plc, P O Box 4,
Earl Road, Cheadle Hulme,
Cheshire, SK8 6QG, UK

Manufactured by:
Solfotecnica Italiana S.p.A.
Via Evangelista Torricelli 2
48010 Cottignola (RA)
Italy

PCS No. : 02523

5 kg

FOR CONTROL OF SCAB ON APPLES AND Pears
PRECAUTIONS

WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH CONCENTRATE from skin or eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after work.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.
KEEP OUT OF REACH OF CHILDREN.
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).
KEEP IN ORIGINAL CONTAINER tightly closed, in a safe place.
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.
DO NOT RE-USE CONTAINER for any purpose. This material and its container must be disposed of in a safe way.
IF YOU FEEL UNWELL seek medical advice (show label where possible).

PROTECT FROM FROST

STATUTORY CONDITIONS FOR USE

FOR USE ONLY AS A HORTICULTURAL FUNGICIDE, as directed below:

Crops: Apples and Pears
Maximum dose: 0.75 kg product/ha
Maximum Number of applications: 12 per crop
Latest time of application: 21 days before harvest

Other Specific Restrictions

For low water volume applications, the maximum concentration must not exceed 0.75 kg product in 200 litres of water.

READ ALL PRECAUTIONS BEFORE USE

PCS NO: 02523
DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

Dithianon WG is a fungicide containing dithianon for use on apples and pears. For professional use only.

1. Restrictions/Warnings
   On variety Golden Delicious, do not use Dithianon WG after green cluster. Dithianon WG must not be mixed with lime sulphur or highly alkaline products.

2. Disease Control
   Dithianon WG is a fungicide recommended for the control of scab on apples and pears.

2.1  Resistance
   Dithianon WG contains dithianon, a dicarbonitrile fungicide with broad-spectrum, preventative properties. Dithianon is a multi-site inhibitor that acts by modification of sulfhydryl (SH) groups found in the cysteine residues of many proteins. Because of its multi-site mode of action, Dithianon WG has a low risk of resistance development and there have been no reports of resistance or reduced sensitivity to this fungicide. Ensure that Dithianon WG is used according to the label recommendations and in accordance with FRAC (Fungicide Resistance Action Group) guidelines.

3. Crops
   3.1. Apples and pears: Dithianon WG (applied alone)
      Time of application
      Apply from the beginning of bud burst.
      On variety Golden Delicious, do not use Dithianon WG after green cluster.
      Rate of application
      Apply 0.75 kg of Dithianon WG in a minimum of 200 litres water/ha.
      Interval: 7 – 14 days.
      Use a 7 day interval in periods of high disease pressure. Also use a 7 day spray interval on varieties that are highly susceptible to scab infection, when carryover is high, or when crop growth is rapid.
      Repeat applications until danger of scab attack ceases.
      Water volumes should be based on the size of the trees and leaf area at application, and sufficient to ensure good coverage.
      Number of applications
      Apply a maximum of twelve applications per year.

   3.2. Apples: application of Dithianon WG in mixture with Scala for improved control of scab
      Dithianon WG is a protectant fungicide. For more robust protection during scab infection periods it is recommended to tank mix Scala with Dithianon WG. Scala will provide additional curative activity and extra protection of new growth due to its translaminar and vapour activity. If scab infection periods have already occurred prior to application, it is recommended that the tank-mix be applied as soon as practical after the infection period.
      Time of application
      Apply from the beginning of bud burst.
      Do not apply Scala after the end of flowering.
      On variety Golden Delicious, do not use Dithianon WG after green cluster.
      Rate of application
      Apply 0.75 l/ha of Scala with 0.75 kg/ha Dithianon WG.
      Interval: 7 - 10 days.
      During scab infection periods apply at 7 - 10 day intervals. Use a 7 day interval during periods of high disease pressure or on varieties that are highly susceptible to scab infection.
      Water volumes should be based on the size of the trees and depth of application, and sufficient to ensure good coverage.
      Number of applications
      A maximum of five applications of Scala may be made per year.

4. Mixing and Spraying
   Half fill the spray tank with clean water and start agitation. Slowly add in the required amount of product. Empty container completely and dispose of safely. Add the remainder of the water and continue agitation until spraying is complete.
   Apply by any low or high volume orchard sprayer.

The following does not form part of the product label under S.I. No. 159 of 2012:

With many products there is a general risk of resistance developing to the active ingredients. For this reason a change in activity cannot be ruled out. It is generally impossible to predict with certainty how resistance may develop because there are so many crop and use connected ways of influencing this. We therefore have to exclude liability for damage or loss attributable to any such resistance that may develop. To help minimise any loss in activity the BASF recommended rate should in all events be adhered to.

Numerous, particularly regional or regionally attributable, factors can influence the activity of the product. Examples include weather and soil conditions, crop plant varieties, crop rotation, treatment times, application amounts, admixture with other products, appearance of organisms resistant to active ingredients and spraying techniques. Under particular conditions a change in activity or damage to plants cannot be ruled out. The manufacturer or supplier is therefore unable to accept any liability in such circumstances. All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their mixing or use or the weather conditions during and after application, which may affect the performance of the material, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use; but nothing should be deemed to exclude or restrict any liability upon us which cannot be excluded or restricted under the provisions of any applicable law.
Safety Data Sheet

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

1.1. Product identifier

DITHIANON WG

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: crop protection product, fungicide

1.3. Details of the supplier of the safety data sheet

Company: BASF SE
67056 Ludwigshafen GERMANY

Contact address: BASF Ireland Ltd., Inchera Industrial Estate, Little Island County Cork, REPUBLIC OF IRELAND

Telephone: +353 21 451-7100
E-mail address: product-safety-north@basf.com

1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Acute T ox. 3 (oral)
Eye Dam./Irrit. 1
Skin Sens. 1A
Carc. 2
Aquatic Acute 1
Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Carc. Cat. 3
(as in Annex I of Directive 67/548/EEC)

Possible Hazards: Harmful if swallowed. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

Globally Harmonized System (GHS) in accordance with IE regulations.

Pictogram:

Signal Word: Danger

Hazard Statement:

H301 Toxic if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary Statements (Prevention):

P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust.
P264 Wash contaminated body parts thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/clothing/eye protection.

Precautionary Statements (Response):

P301 + P330 IF SWALLOWED: rinse mouth.
P303 + P352 IF ON SKIN (on hair): Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P362 + P364 Take off contaminated clothing and wash before reuse.
P391 Collect spillage.

Precautionary Statements (Storage):
P405 Store locked up.

Precautionary Statements (Disposal):
P501 Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as non-hazardous waste.

According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: DITHIANON

According to Directive 67/548/EEC or 1999/45/EC

Classification/labelling in accordance with Irish regulations.

Hazard symbol(s)

Xn Harmful.
N Dangerous for the environment.

R-phrase(s)

R22 Harmful if swallowed.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.
R50 Very toxic to aquatic organisms.
R40 Limited evidence of a carcinogenic effect.
S-phrase(s)
S2 Keep out of the reach of children.
S13 Keep away from food, drink and animal feeding stuffs.
S20/21 When using do not eat, drink or smoke.
S24 Avoid contact with skin.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 This material and its container must be disposed of in a safe way.
S36/37 Wear suitable protective clothing and gloves.
S39 Wear eye/face protection.
S46 If swallowed, seek medical advice immediately and show this container or label.
S57 Use appropriate container to avoid environmental contamination.

Hazard determining component(s) for labelling: DITHIANON

2.3. Other hazards
According to Regulation (EC) No 1272/2008 [CLP]
See section 12 – Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/Information on Ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Chemical nature
crop protection product, fungicide, water dispersible granules

Hazardous ingredients (GHS)
according to Regulation (EC) No. 1272/2008
dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Content (W/W): 70 %
CAS Number: 3347-22-6
EC-Number: 222-098-6
Acute Tox. 2 (Inhalation – dust)

Kaolin
Content (W/W): < 25 %
CAS Number: 1332-58-7
EC-Number: 310-194-1

Ammonium sulphate
Content (W/W): < 25 %
CAS Number: 7783-20-2
EC-Number: 231-984-1
REACH registration number: 01-2119455044-46

Hazardous ingredients
according to Directive 1999/45/EC
dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Content (W/W): 70 %
CAS Number: 3347-22-6
EC-Number: 222-098-6
R-phrase(s): 22, 23, 40, 41, 43, 50/53
Carc. Cat. 3

Kaolin
Content (W/W): < 25 %
CAS Number: 1332-58-7
EC-Number: 310-194-1

Ammonium sulphate
Content (W/W): < 25 %
CAS Number: 7783-20-2
EC-Number: 231-984-1
REACH registration number: 01-2119455044-46

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures
First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/ metered dose inhaler.

On skin contact:
Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

On contact with eyes:
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.
Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media
Suitable extinguishing media: dry powder, foam, water spray

Unsuitable extinguishing media for safety reasons: carbon dioxide
5.2. Special hazards arising from the substance or mixture
carbon monoxide, Carbon dioxide, nitrogen oxides, sulfur oxides.
The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters
Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing. Further information:
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

6.2. Environmental precautions
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.
Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environmental Protection Agency if it enters surface or ground waters. Keep people and animals away.

6.3. Methods and material for containment and cleaning up
For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Avoid raising dust. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

6.4. Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling
No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.
Protection against fire and explosion:
Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge – sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities
Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.
Protect from temperatures above: 40 °C
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

7.3. Specific end use(s)
For the relevant identified use(s) listed in Section 1 the advice mentioned in section 7 is to be observed.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters
Components with occupational exposure limits:
1332-58-7: Kaolin
TWA value 2.0 mg/m3 (OEL (IE)), Respirable dust
Refer to the current schedule of occupational exposure standards published by the Irish HSA. For normal use and handling refer to the product label/leaflet. In all other cases the following apply.

8.2. Exposure controls
Personal protective equipment
Respiratory protection:
Suitable respiratory protection for higher concentrations or long-term effect: Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)
Hand protection:
Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Eye protection:
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust). General safety and hygiene measures
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Form:
granules
Colour:
brown
Odour:
characteristic
Odour threshold:
Not determined due to potential health hazard by inhalation.
ph value:
approx. 3 – 5
(1 %/m, approx. 20 °C) (as suspension)
Melting point:
> 20 °C
The statements are based on the properties of the individual components.
Boiling point:
The product is a non-volatile solid.
Flash point:
not applicable
Evaporation rate:
not applicable
Flammability:
not highly flammable
Lower explosion limit:
As a result of our experience with this product and our knowledge of its composition we do...
not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Vapour pressure: The value has not be determined because of the high melting point.

Relative vapour density (air): not applicable

Partitioning coefficient n-octanol/water (log Kow): (Method: Regulation 440/2008/EC, A.16)

Self ignition: not self-igniting (Method: Regulation 440/2008/EC, A.16)
Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.

Viscosity, dynamic: not applicable, the product is a solid

Fire promoting properties: not fire-propagating (Regulation 440/2008/EC, A.17)

9.2. Other information

Bulk density: 528 – 600 kg/m$^3$
Grain size distribution > 50 µm (Counted Distribution) 100 %

If necessary, information on other physical and chemical parameters is indicated in this section.

SECTION 10: Stability and Reactivity

10.1. Reactivity
No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability
The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions
No hazardous reactions if stored and handled as prescribed/indicated.

10.4. Conditions to avoid
See MSDS section 7 – Handling and storage.

10.5. Incompatible materials
Substances to avoid: strong acids, strong bases, strong oxidizing agents

10.6. Hazardous decomposition products
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity
Assessment of acute toxicity: Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Of high toxicity after single ingestion.

Experimental/calculated data:

LD$_{50}$, rat (oral): 273 mg/kg (Directive 84/449/EEC, B.1)
LC$_{50}$, rat (by inhalation): Not inhalable due to the physico-chemical properties of the product.

LD$_{50}$, rat (dermal): > 4,000 mg/kg (OECD Guideline 402) No mortality was observed.

Irritation
Assessment of irritating effects: May cause severe damage to the eyes. Not irritating to the skin.

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant (Directive 84/449/EEC, B.4)
Serious eye damage/irritation rabbit: Risk of serious damage to eyes. (Directive 84/449/EEC, B.5)

Respiratory/Skin sensitization
Assessment of sensitization: The product has not been tested. The statement has been derived from the properties of the individual components. Sensitization after skin contact possible.

Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Guinea pig maximization test guinea pig: skin sensitizing (OECD Guideline 406) An aqueous solution was tested.

Germ cell mutagenicity
Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity
Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity
Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Assessment of teratogenicity: Long term administration of organotoxic doses revealed a carcinogenic effect. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

Reproductive toxicity
Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Other information: If necessary, information on other physical and chemical parameters is indicated in this section.
Repeated dose toxicity and Specific target organ toxicity (repeated exposure)
Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.
Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Assessment of repeated dose toxicity: Repeated exposure may affect certain organs. Damages the kidneys.
Other relevant toxicity information
Misure can be harmful to health.

SECTION 12: Ecological Information

12.1. Toxicity
Assessment of aquatic toxicity:
Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Toxicity to fish:
LC₅₀ (96 h) 0.033 mg/l, Oncorhynchus mykiss
Aquatic invertebrates:
EC₅₀ (48 h) 0.157 mg/l, Daphnia magna
Aquatic plants:
EC₅₀ (72 h) 0.091 mg/l, Chlorella vulgaris

12.2. Persistence and degradability
Assessment biodegradation and elimination (H₂O):
The product has not been tested. The statement has been derived from the properties of the individual components.
Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Assessment biodegradation and elimination (H₂O):
According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

12.3. Bioaccumulative potential
Assessment bioaccumulation potential:
The product has not been tested. The statement has been derived from the properties of the individual components.
Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Bioaccumulation potential:
Bioconcentration factor: 28 (3 d), Oncorhynchus mykiss (OECD Guideline 305 E) Does not accumulate in organisms.

12.4. Mobility in soil
Assessment transport between environmental compartments:
Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.
Information on: dithianon (ISO); 5,10-dihydro-5,10-dioxonaphtho(2,3-b)(1,4)dithiazine-2,3-dicarbonitrile
Assessment transport between environmental compartments:
Adsorption in soil: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment
The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6. Other adverse effects
The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7. Additional information
Other ecotoxicological advice:
Do not discharge product into the environment without control.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods
Must be sent to a suitable incineration plant, observing local regulations.
Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14: Transport Information

Land transport
ADR
UN number UN2588
UN proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON)
Transport hazard class(es): 6.1, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: Tunnel code: E
RID
UN number UN2588
UN proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON)
Transport hazard class(es): 6.1, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known

Inland waterway transport
ADN
UN number UN2588
UN proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON)
Transport hazard class(es): 6.1, EHSM
Packing group: III
Environmental hazards: yes
Special precautions for user: None known
Transport in inland waterway vessel: Not evaluated
Sea transport
IMDG
UN number: UN 2588
UN proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON)
Transport hazard class(es): 6.1, EHSM
Packing group: III
Environmental hazards: yes
Marine pollutant: YES
Special precautions for user: None known

Air transport
IATA/ICAO
UN number: UN 2588
UN proper shipping name: PESTICIDE, SOLID, TOXIC, N.O.S. (contains DITHIANON)
Transport hazard class(es): 6.1
Packing group: III
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

14.1. UN number
See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. UN proper shipping name
See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)
See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group
See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards
See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user
See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Regulation: Not evaluated
Shipment approved: Not evaluated
Pollution name: Not evaluated
Pollution category: Not evaluated
Ship Type: Not evaluated

SECTION 15: Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
For the user of this plant-protective product applies: ‘To avoid risks to man and the environment, comply with the instructions for use.’ (Directive 1999/45/EC, Article 10, No. 1.2)
This product may be subject to the Seveso II Directive and amendments if specific threshold tonnages are exceeded.
For further medical advice Doctors should contact the National Poison Information Centre at Beaumont Hospital, Dublin.

15.2. Chemical Safety Assessment
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16: Other Information
For proper and safe use of this product please refer to the approval conditions laid down on the product label.
Full text of the classifications including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:
Acute Toxic
Eye Dam./Irrit. Serious eye damage/eye irritation
Skin Sens. Skin sensitization
Carc. Carcinogenicity
Aquatic Acute Hazardous to the aquatic environment – acute
Aquatic Chronic Hazardous to the aquatic environment - chronic
Carc. Cat. 3 Carcinogenic substances Category 3: Substances which cause concern for man owing to possible carcinogenic effects.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product’s properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

(Version: 3.0)