



MATERIAL SAFETY DATA SHEET DIMILIN WP25

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UPDATED : 8/01/2007

COMPANY DETAILS:

Name : Chemtura (Pty) Ltd
Address : 16 Kelly Road, Jet Park, Boksburg
Tel No : (011) 397 4336
Fax No : (011) 397 4316
Emergency Tel No : 082 452 6865 OR 0860 333 911

Chemtura Corporation urges the recipient of this Safety Data Sheet to study it carefully to become aware of Hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information on this sheet, (2) furnish a copy to each of your customers for the product, and (3) request your customers to inform their employees and customers as well.

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING:

Identification of the substance or preparation: DIMILIN® WP25

Chemical Name : Diflubenzuron
Use of substance/preparation : No specific information
Company identification : Chemtura Europe Ltd.
Kennet House
4 Langley Quay
Slough Berkshire
SL3 6EH
United Kingdom

Emergency telephone number : +44 (0)208 762 8322
For additional emergency telephone numbers see section 16 of the Safety Data Sheet

Environmental, Health & Safety Department : Tel: +44(0)1753.603.000

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredient | % by weight | Hazard | Danger Symbol |
|---|-------------|---------------|---------------|
| Diflubenzuron CAS# 35367-38-5 EINECS/ELINCS# 252-529-3 | 25 | R50 | N |
| Sodium diisopropylnaphthalenesulphonate CAS# 1322-93-6 EINECS/ELINCS# 215-343-3 | <5 | R22 R36/37 | Xn |
| Alcohols, C10-16, sulfate, sodium salt CAS# 68585-47-7 EINECS/ELINCS# 271-557-7 | <5 | R36/37/38 | Xi |

3. HAZARDS IDENTIFICATION

Main Hazard and Effects:
Very toxic to aquatic organisms

4. FIRST-AID MEASURES

Swallowing

Do not induce vomiting. Rinse mouth with water. Obtain medical attention

Inhalation

Remove to fresh air. Obtain medical attention

Skin contact

Remove contaminated clothing. Wash thoroughly with warm water using a mild soap. Obtain medical attention if irritation persists

Eye contact

Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention if irritation persists

5. FIRE-FIGHTING MEASURES

Flash Points: 110°C

Hazardous combustion products

Irritating fumes

Oxides of carbon

Oxides of nitrogen

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear
Self-contained breathing apparatus

Extinguishing media

Suitable : CO2
foam
Dry powder
Water fog
Unsuitable : water spray

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wear suitable protective equipment
Environmental precautions : Prevent from entering sewer system, surface water or soil., May be harmful to aquatic life
Methods for cleaning up : Sweep up and collect in a suitable container for disposal

7. HANDLING AND STORAGE

HANDLING

Handling precautions : Avoid dust formation. Use only with adequate ventilation

STORAGE

Storage requirements : Store in a cool, dry place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

| Component | Type | Value | Remark |
|--------------------------------------|---------|------------------------|----------------------|
| Particulates not otherwise regulated | 8 hours | 3,0 mg/m ³ | Respirable dust |
| | 8 hours | 10,0 mg/m ³ | Total inhalable dust |
| | MAK | 3,0 mg/m ³ | Respirable dust |
| | MAK | 10,0 mg/m ³ | Total inhalable dust |
| | OEL-TWA | 4,0 mg/m ³ | Respirable dust |
| | OEL-TWA | 10,0 mg/m ³ | Total inhalable dust |
| | TWA | 3,0 mg/m ³ | Respirable dust |
| | TWA | 10,0 mg/m ³ | Total inhalable dust |
| | VLA-ED | 3,0 mg/m ³ | Respirable dust |
| | VLA-ED | 10,0 mg/m ³ | Total inhalable dust |
| | NGV | 5,0 mg/m ³ | Respirable dust |
| | NGV | 10,0 mg/m ³ | Total inhalable dust |
| | MAC TWA | 5,0 mg/m ³ | Respirable dust |
| | MAC TWA | 10,0 mg/m ³ | Total inhalable dust |

Personal Protection

Respiratory protection

In case of occurrence of dust respiratory protective equipment required

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Hand protection/protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact

Engineering Controls

Ventilation

Local exhaust suggested to prevent dust build-up

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state : Powder
Color : White to yellow
Odor: : Practically odorless

OTHER PROPERTIES

Boiling / Melting Point : Not available
pH : (approximately) 8
Concentration : 10g/l
Density : 2,09 g/cm³ at 25°C
Bulk density : 0,3gcm³
Solubility in water : Dispersible
Flashpoint : >110°C
Thermal decomposition : NONE
Autoignition temperature : >110°C
Dynamic viscosity : Not applicable
Oxidizing properties : Not applicable

10. STABILITY AND REACTIVITY

Stability : This product is stable under normal storage and handling conditions
Incompatible materials : Oxidising agents, Strong acids, Strong bases
Hazardous Combustion Products : Irritating fumes
Oxides of carbon
Oxides of nitrogen
Hazardous polymerization : Will not occur

11. TOXICOLOGICAL INFORMATION

Swallowing

Test results

Acute toxicity : LD50 Rat
Result : >10.000 mg/kg

Skin absorption

Test results
 Acute toxicity : LD50 Rat
 Result : >20.000 mg/kg

Inhalation

Test results
 Acute toxicity : LD50 Rat
 Result : >3,52 mg/l
 Exposure time : 4h

Skin contact

Test results
 Skin irritation : Species: Rabbit
 Classification: Not irritating

Eye contact

Test results
 Eye irritation : Species : Rabbit
 Classification: Not irritating

Sensitization

Test results
 Species: Guinea pigs
 Result: Non sensitizing

Mutagenicity

Assessment : Negative

Carcinogenicity

Assessment : Negative

Toxicity to reproduction / fertility

Assessment : Negative

12. ECOLOGICAL INFORMATION

| | |
|---|--|
| Component ecotoxicology Diflubenzuron Acute toxicity fish | LC50-rainbow trout (<i>Oncorhynchus mykiss</i>) Result: > 0,2mg/l Exposure time: 96h |
| Component ecotoxicology Diflubenzuron Acute toxicity fish | -Zebra fish (<i>Brachydanio rerio</i>) Result: > 0,2mg/l Exposure time: 96h |
| Component ecotoxicology Diflubenzuron Aquatic toxicity to plants | Acute algae toxicity LC50- <i>Selenastrum capricornutum</i> Result: > 0,3 mg/l |

| | |
|--|--|
| Component ecotoxicology Diflubenzuron Acute toxicity to aquatic invertebrates | LC50-water flea (Daphnia magna) Result: <0,01mg/l Exposure time: 48h |
|--|--|

13. DISPOSAL CONSIDERATIONS

- General : Avoid discharge to sewers and natural waters. Bury in a landfill or incinerate in a furnace in accordance with applicable national and local regulations.
- Non-cleaned : Empty drums should be decontaminated and either passed to an approved drum reconditioned or destroyed. Containers that cannot be cleaned must be treated as waste.

14. TRANSPORT INFORMATION

ADR/RID

- Proper shipping name : Environmentally hazardous substance, solid, N.O.S.
Class : 9 (M7)
UN No. : 3077
Packing Group : III
Hazard Number : 90
Label : 9

IMDG Classification

- Proper shipping name : Environmentally hazardous substance, solid, N.O.S.
Class : 9
Subsidiary risk : marine pollutant
UN ID# : UN 3077
Packing group : III

ICAO classification

- Proper shipping name : Environmentally hazardous substance, solid, N.O.S.
Class : 9
UN ID# : UN 3077
Packing Group : III

15. REGULATORY INFORMATION

EC Classification

- Danger Symbol(s) : N
Risk Phrases : R50 very toxic to aquatic organisms
Safety Phrases : S2 Keep out of reach of children
S13 Keep away from food, drink and animal feeding stuffs
S20/21 When using do not eat, drink or smoke
S29 Do not empty into drains

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S60 This material and/or its container must be disposed of as hazardous waste

S61 Avoid release to the environment. Refer to special instructions/Safety data Sheets

Chemical inventory

Canada : PCP# 13816

16. OTHER INFORMATION

List of R-phrases used in data sheet. See section 15 for classification details

Risk phrases : R22 Harmful if swallowed
R36 Irritating to eyes
R37 Irritating to respiratory system
R38 Irritating to skin
R50 Very toxic to aquatic organisms

Further information : Where appropriate, use CEN approved personal protection Equipment. For further information see the webpage. This safety data sheet conforms to EC Directive 2001/58 and amendments.

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST

Chemtura Corporation
Emergency Telephone Numbers

| | | |
|---------------|--|----------------------|
| Europe | All European companies | +44 (0) 208 762 8322 |
| Asia Pacific | Australia, New Zealand | +44 (0) 870 190 6777 |
| | China, Hong Kong, Singapore, Philippines, Taiwan, Vietnam, India | +65 63 222 513 |
| | Japan, North & South Korea | +65 63 222 514 |
| | Indonesia | +62 21 230 5992 |
| | Malaysia | +60 3 205 35 754 |
| | Thailand | +66 2 642 7851 |
| Middle East | All, except Israel | +961 3 487 287 |
| | Israel | +44 (0) 208 762 8322 |
| Africa | Arabic speaking countries | +961 3 487 287 |
| | All other countries | +44 (0) 208 762 8322 |
| Latin America | All | +44 (0) 208 762 8322 |

STP Standard temperature and pressure
W/W Weight/Weight

THE OPINIONS EXPRESSED HEREIN ARE THOSE OF QUALIFIED EXPERTS WITHIN CHEMTURA CORPORATION. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS SAFETY DATA SHEET. SINCE THE USE OF THIS INFORMATION AND OF THESE OPINIONS AND THE CONDITIONS OF USE OF THIS PRODUCT ARE NOT WITHIN THE CONTROL OF CHEMTURA CORPORATION, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCTS.